

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 17:50:46
Data source version	GOMOS/6.01
Start time of products	23-09-2011 (23SEP2011 00:00:00)
Stop time of products	24-09-2011 (24SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	28
Nb of prods with errors	0

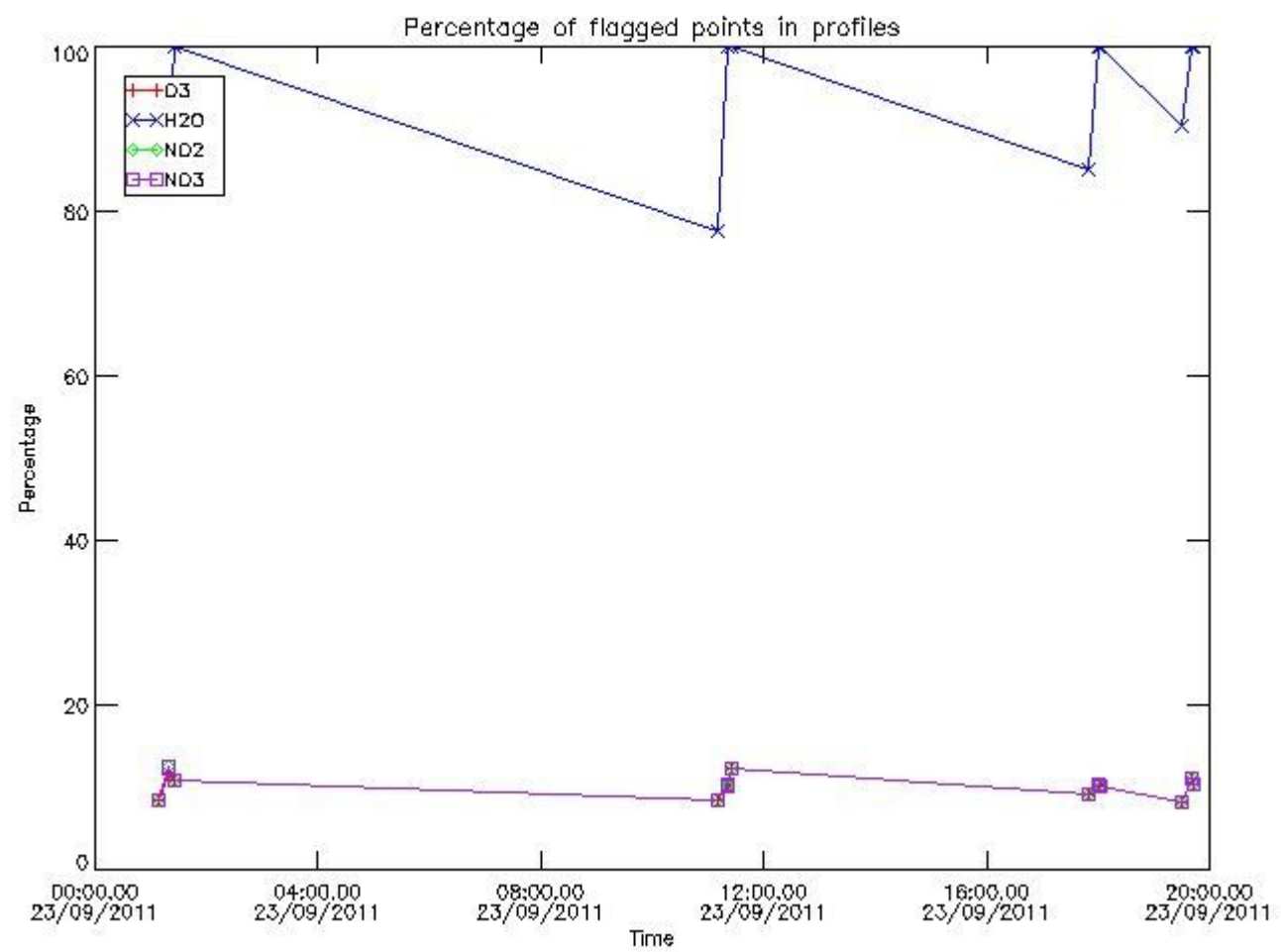
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110923_000931_000000513107_00002_50016_8523.N1	23-SEP-2011 00:09:31	Twilight	50.500	52	16Bet Cet	2.0370	4500.0	101	50016	No
2	GOM_NL__2PRFIN20110923_002455_000000433107_00002_50016_8524.N1	23-SEP-2011 00:24:55	Bright	42.500	58	21Alp And	2.0730	11000.	85	50016	No
3	GOM_NL__2PRFIN20110923_003456_000000423107_00002_50016_8525.N1	23-SEP-2011 00:34:56	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	50016	No
4	GOM_NL__2PRFIN20110923_005832_000000503107_00002_50016_8526.N1	23-SEP-2011 00:58:32	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	50016	No
5	GOM_NL__2PRFIN20110923_010809_000000663107_00002_50016_8527.N1	23-SEP-2011 01:08:09	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	50016	No
6	GOM_NL__2PRFIN20110923_012003_000000573107_00002_50016_8528.N1	23-SEP-2011 01:20:03	Dark	57.000	23	21Eps CMa	1.5020	26000.	114	50016	No
7	GOM_NL__2PRFIN20110923_012423_000000473107_00003_50017_8532.N1	23-SEP-2011 01:24:23	Dark	47.000	161	Tau Pup	2.9310	4500.0	94	50017	No
8	GOM_NL__2PRFIN20110923_103617_000000423107_00008_50022_8637.N1	23-SEP-2011 10:36:17	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	50022	No
9	GOM_NL__2PRFIN20110923_105957_000000503107_00008_50022_8638.N1	23-SEP-2011 10:59:57	Bright	49.500	24	66Alp Gem	1.5800	10200.	99	50022	No
10	GOM_NL__2PRFIN20110923_110937_000000613107_00008_50022_8639.N1	23-SEP-2011 11:09:37	Dark	61.000	8	10Alp CMi	0.40000	6500.0	122	50022	No
11	GOM_NL__2PRFIN20110923_112008_000000503107_00008_50022_8640.N1	23-SEP-2011 11:20:08	Dark	49.500	88	31Eta CMa	2.4480	20000.	99	50022	No
12	GOM_NL__2PRFIN20110923_112133_000000513107_00008_50022_8641.N1	23-SEP-2011 11:21:33	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	50022	No
13	GOM_NL__2PRFIN20110923_112551_000000413107_00009_50023_8674.N1	23-SEP-2011 11:25:51	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	50023	No
14	GOM_NL__2PRFIN20110923_121631_000000413107_00009_50023_8675.N1	23-SEP-2011 12:16:31	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	50023	No
15	GOM_NL__2PRFIN20110923_165152_000000533107_00012_50026_8777.N1	23-SEP-2011 16:51:52	Twilight	53.000	52	16Bet Cet	2.0370	4500.0	106	50026	No
16	GOM_NL__2PRFIN20110923_171539_000000393107_00012_50026_8778.N1	23-SEP-2011 17:15:39	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	50026	No
17	GOM_NL__2PRFIN20110923_171711_000000423107_00012_50026_8779.N1	23-SEP-2011 17:17:11	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	50026	No
18	GOM_NL__2PRFIN20110923_174053_000000503107_00012_50026_8780.N1	23-SEP-2011 17:40:53	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	50026	No
19	GOM_NL__2PRFIN20110923_175036_000000673107_00012_50026_8781.N1	23-SEP-2011 17:50:36	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	50026	No
20	GOM_NL__2PRFIN20110923_180108_000000493107_00012_50026_8782.N1	23-SEP-2011 18:01:08	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	50026	No
21	GOM_NL__2PRFIN20110923_180234_000000503107_00012_50026_8783.N1	23-SEP-2011 18:02:34	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	50026	No
22	GOM_NL__2PRFIN20110923_183206_000000523107_00013_50027_8801.N1	23-SEP-2011 18:32:06	Twilight	51.500	52	16Bet Cet	2.0370	4500.0	103	50027	No
23	GOM_NL__2PRFIN20110923_185553_000000403107_00013_50027_8802.N1	23-SEP-2011 18:55:53	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	50027	No
24	GOM_NL__2PRFIN20110923_185725_000000423107_00013_50027_8803.N1	23-SEP-2011 18:57:25	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	50027	No
25	GOM_NL__2PRFIN20110923_192107_000000523107_00013_50027_8804.N1	23-SEP-2011 19:21:07	Bright	52.000	24	66Alp Gem	1.5800	10200.	104	50027	No
26	GOM_NL__2PRFIN20110923_193051_000000683107_00013_50027_8805.N1	23-SEP-2011 19:30:51	Dark	67.500	8	10Alp CMi	0.40000	6500.0	135	50027	No
27	GOM_NL__2PRFIN20110923_194122_000000463107_00013_50027_8806.N1	23-SEP-2011 19:41:22	Dark	45.500	88	31Eta CMa	2.4480	20000.	91	50027	No
28	GOM_NL__2PRFIN20110923_194249_000000493107_00013_50027_8807.N1	23-SEP-2011 19:42:49	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	50027	No

3. Quality information per product

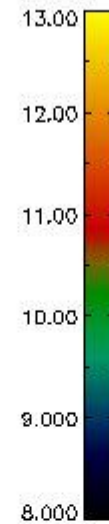
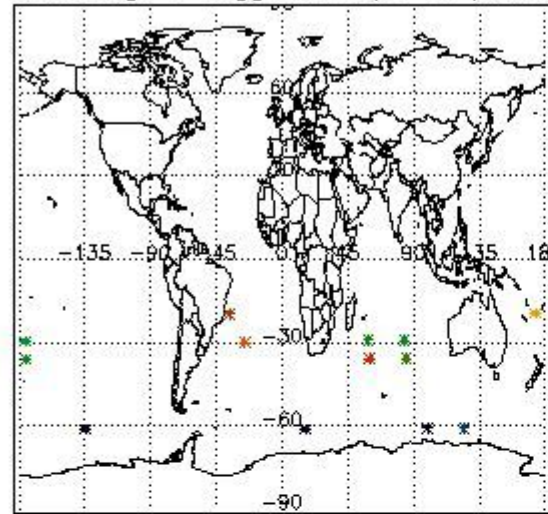
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

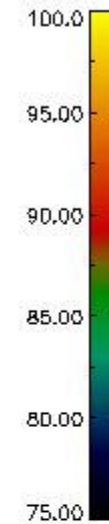
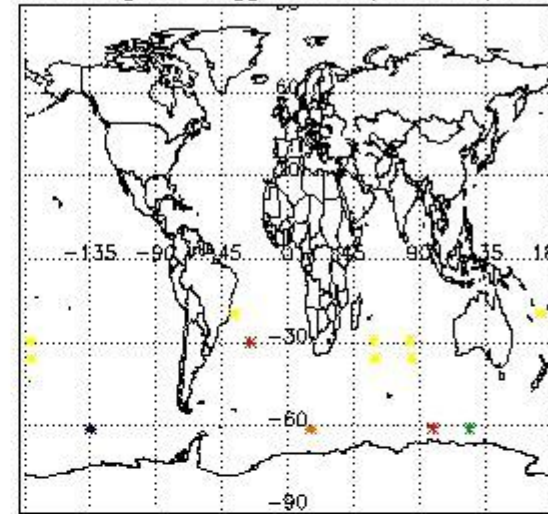


3.2 Plot quality information per product (world map)

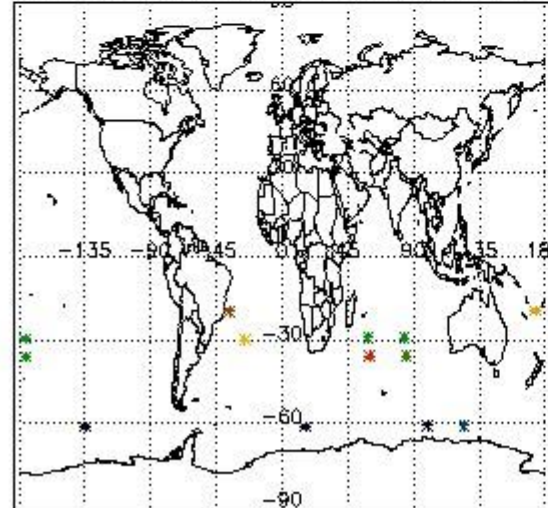
Percentage of flagged data per O3 profile



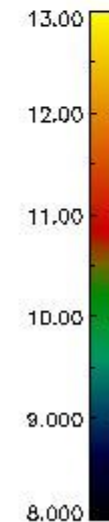
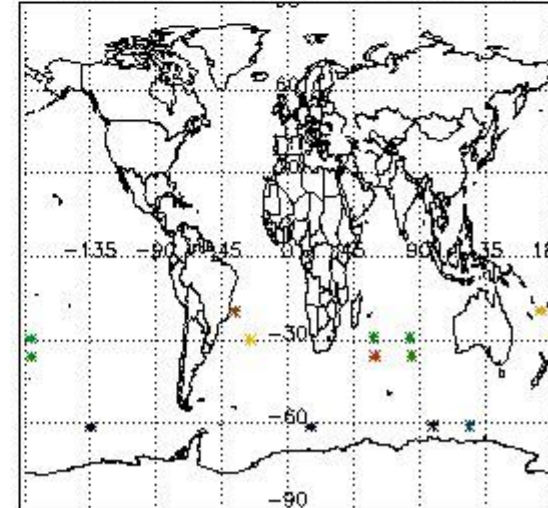
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

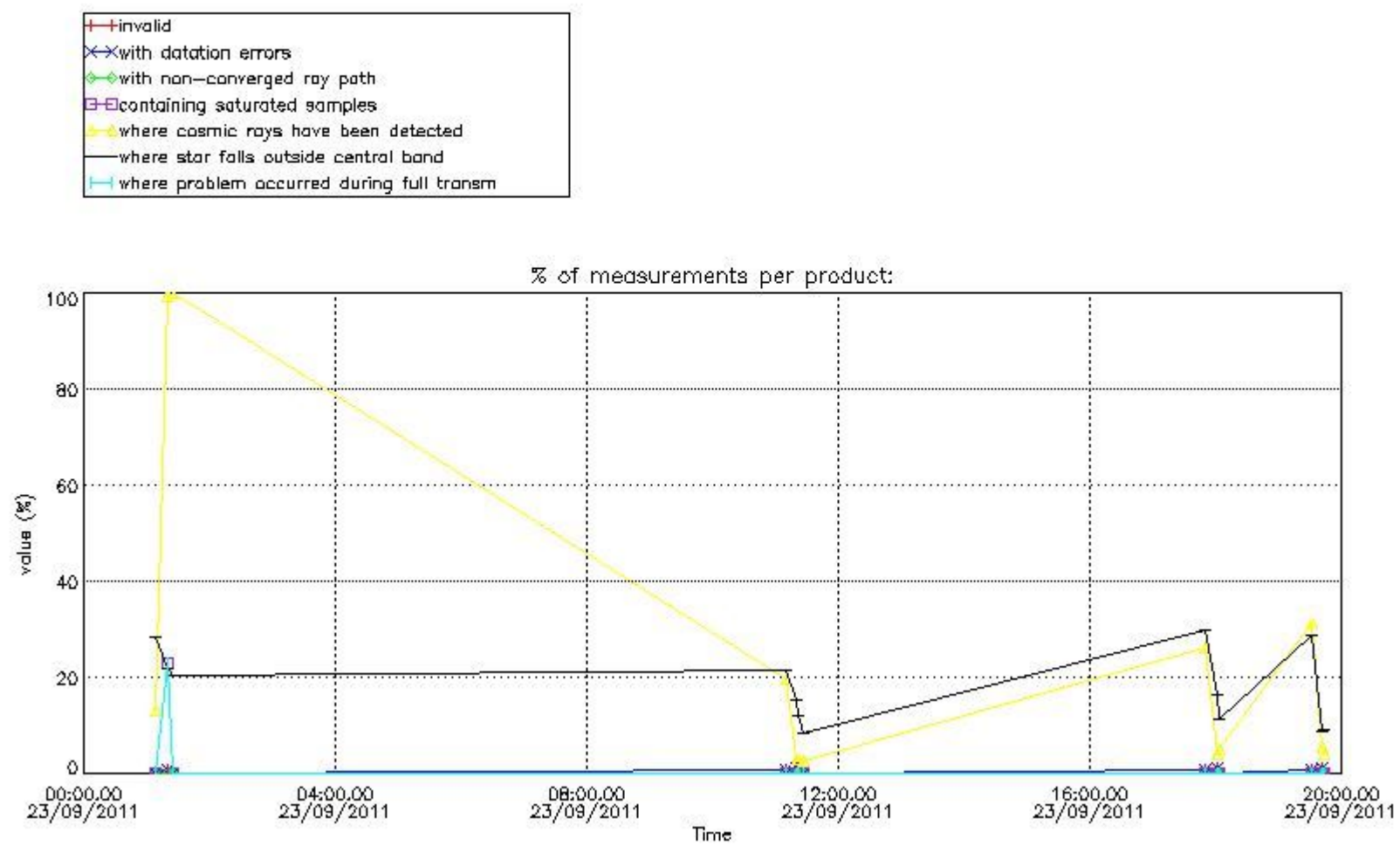


4. Level 1 quality information per product

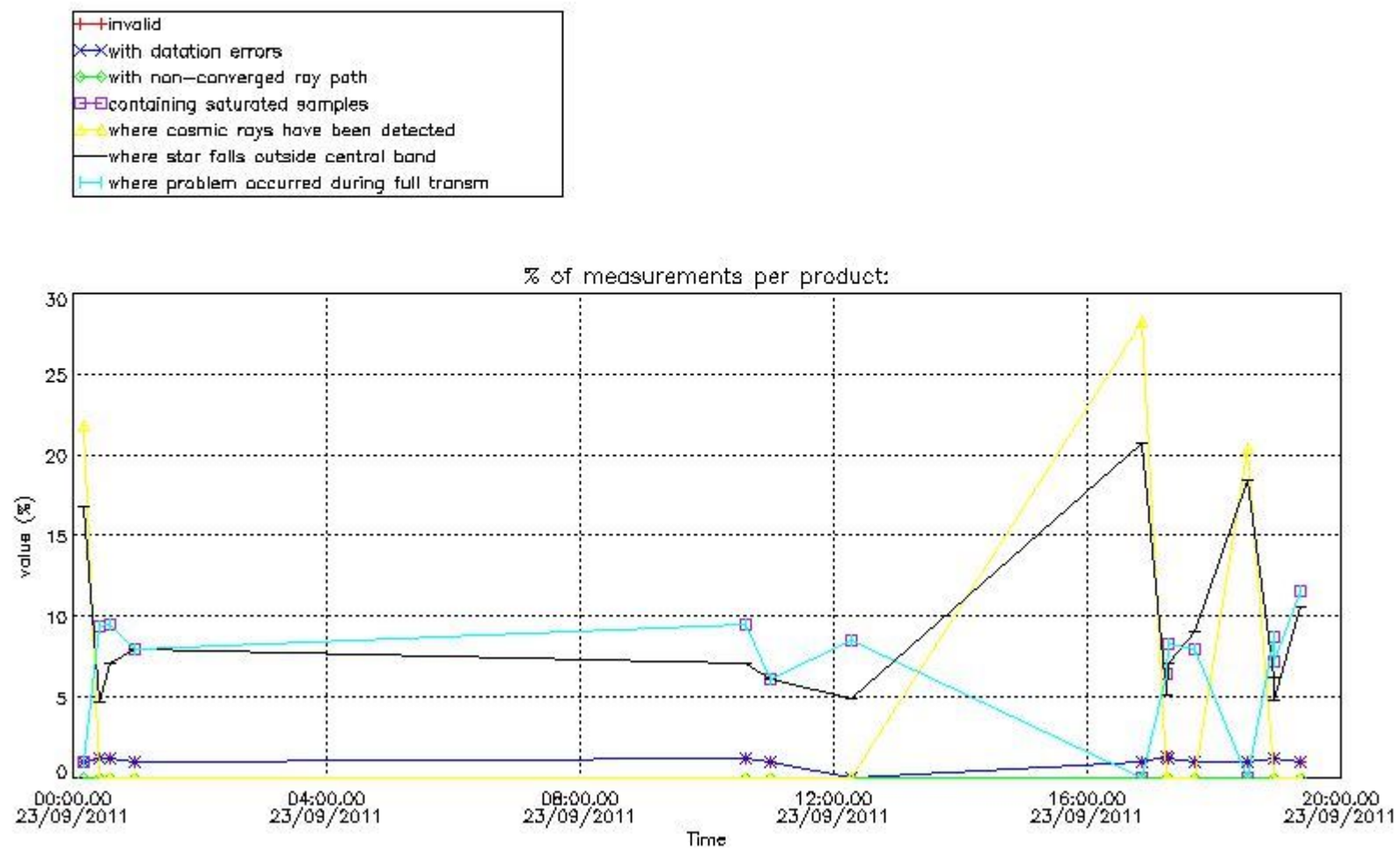
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



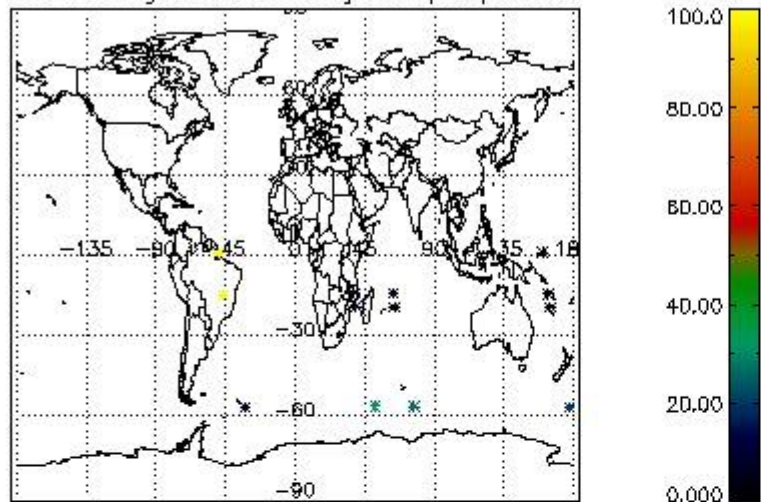
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



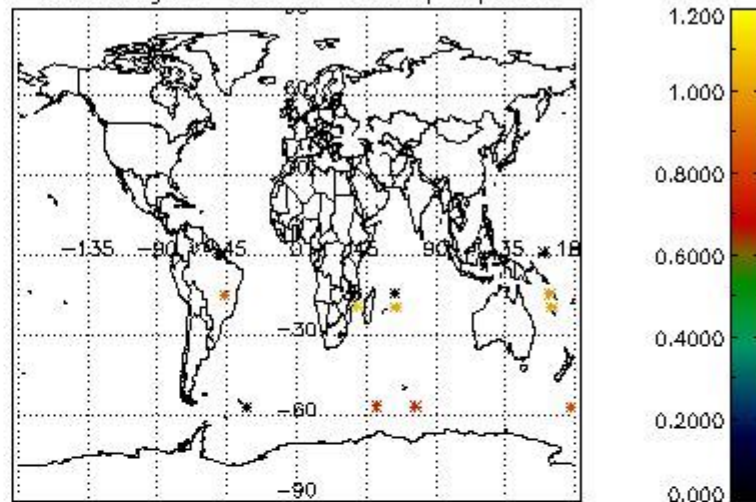
4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

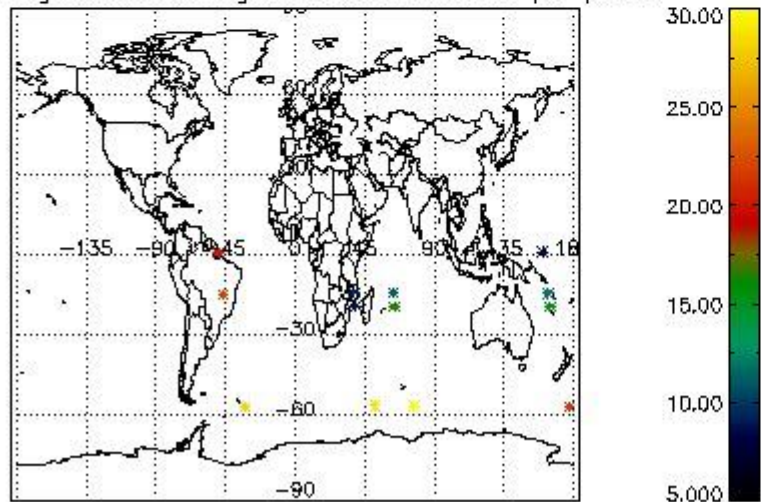
Percentage of cosmic ray hits per profile



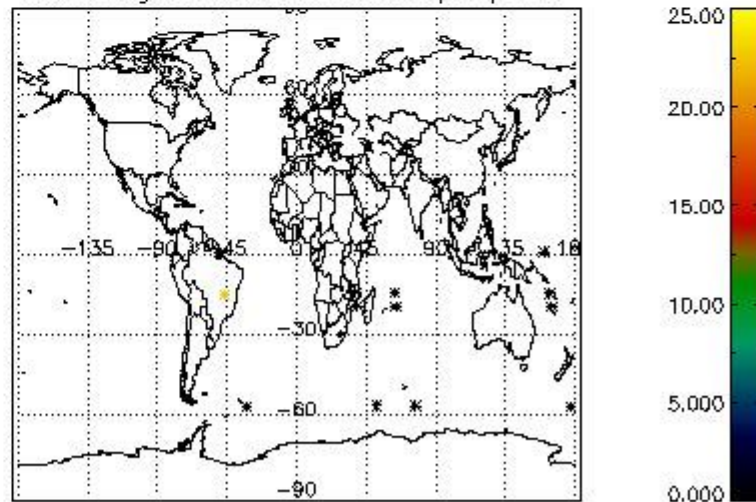
Percentage of datation errors per profile



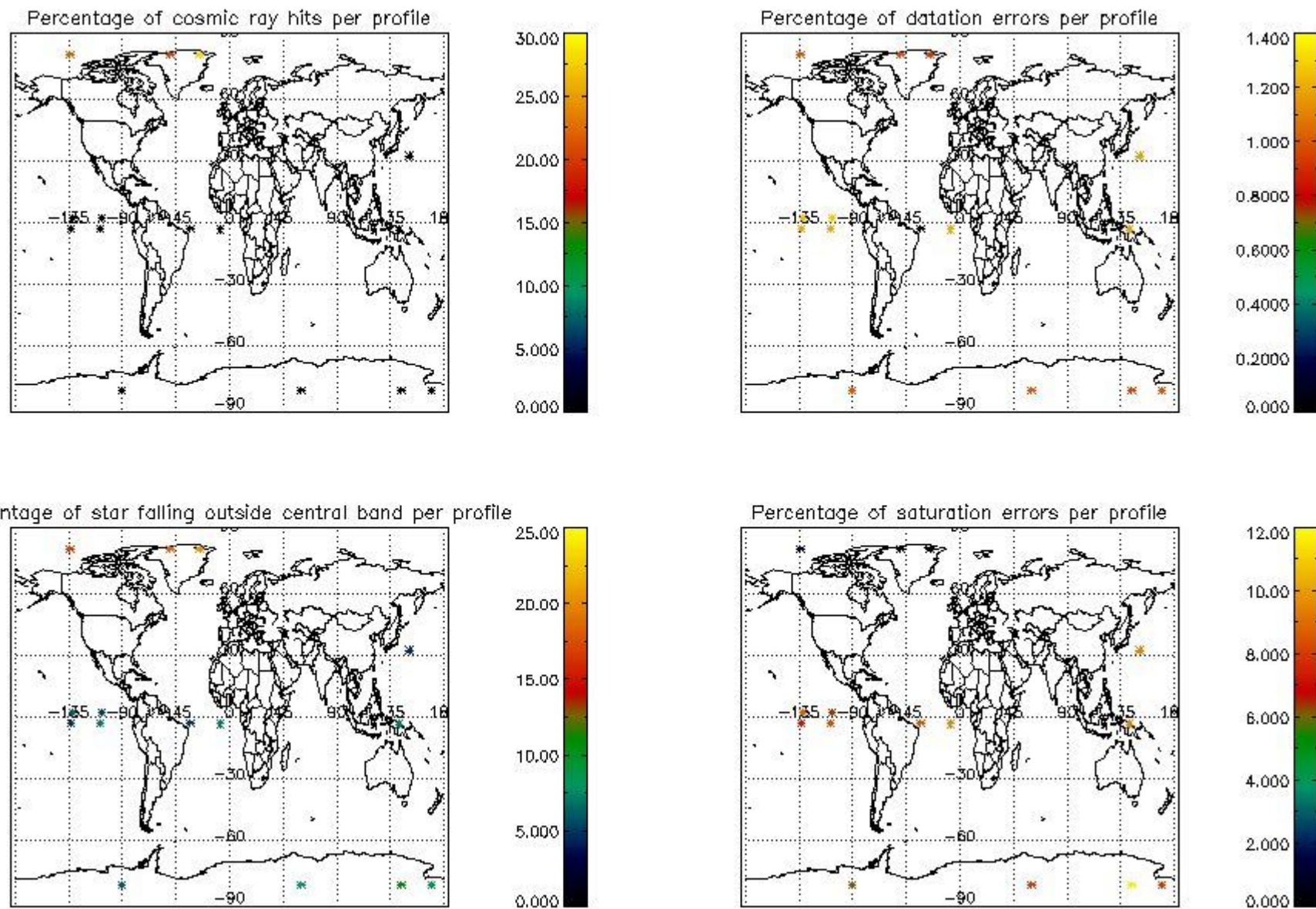
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

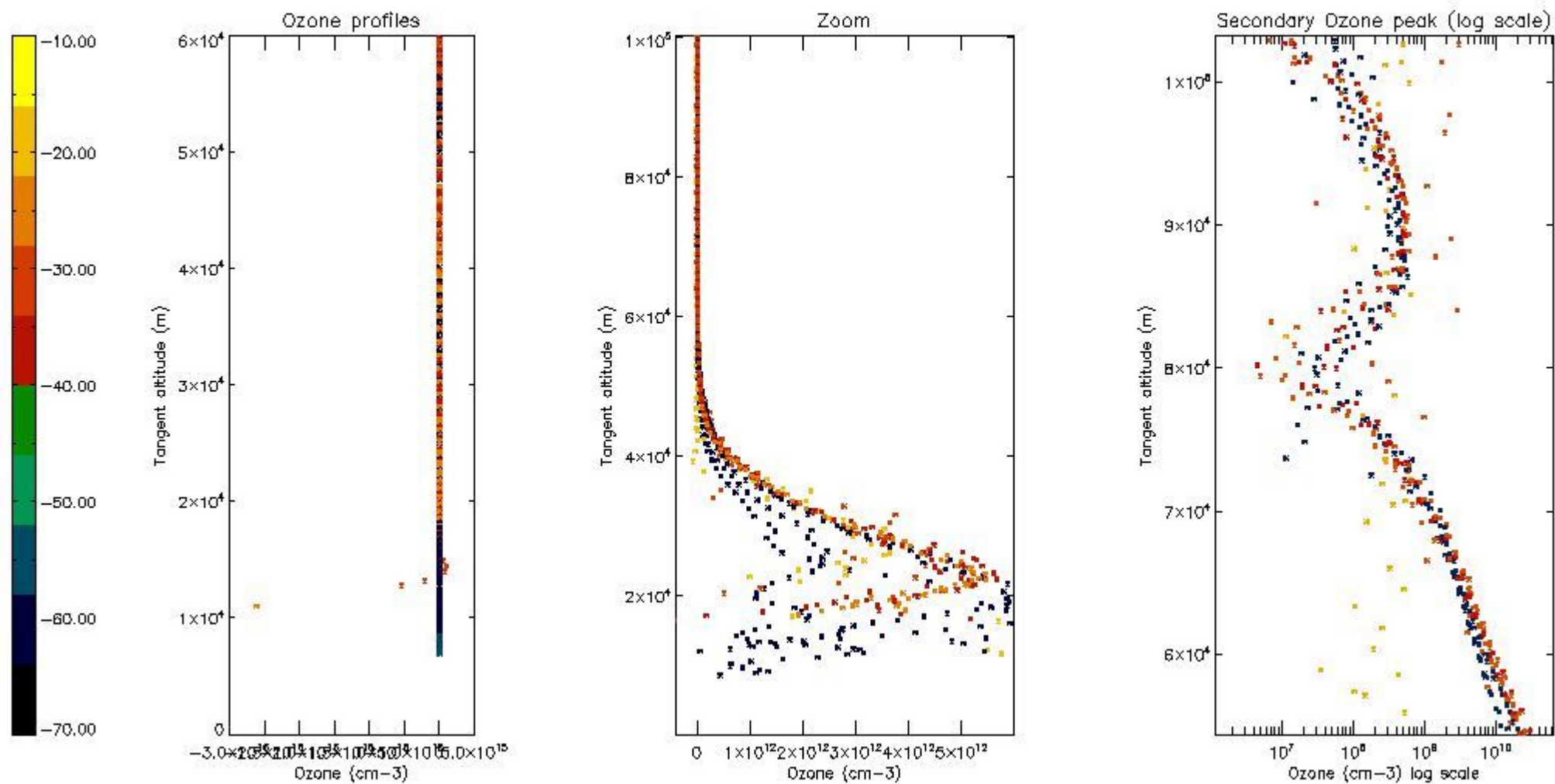
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	26

STD < 10	21
STD < 5	17

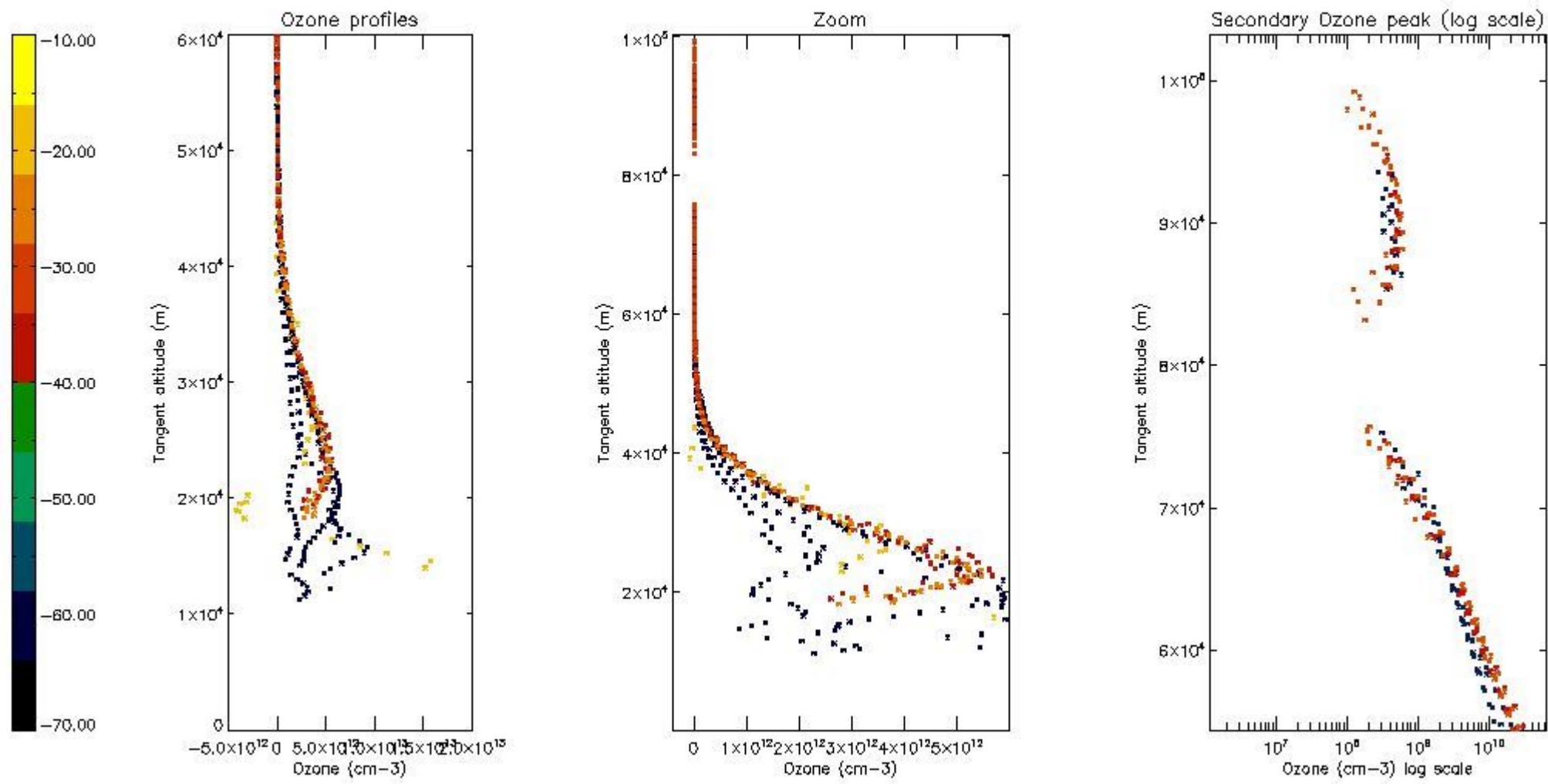
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



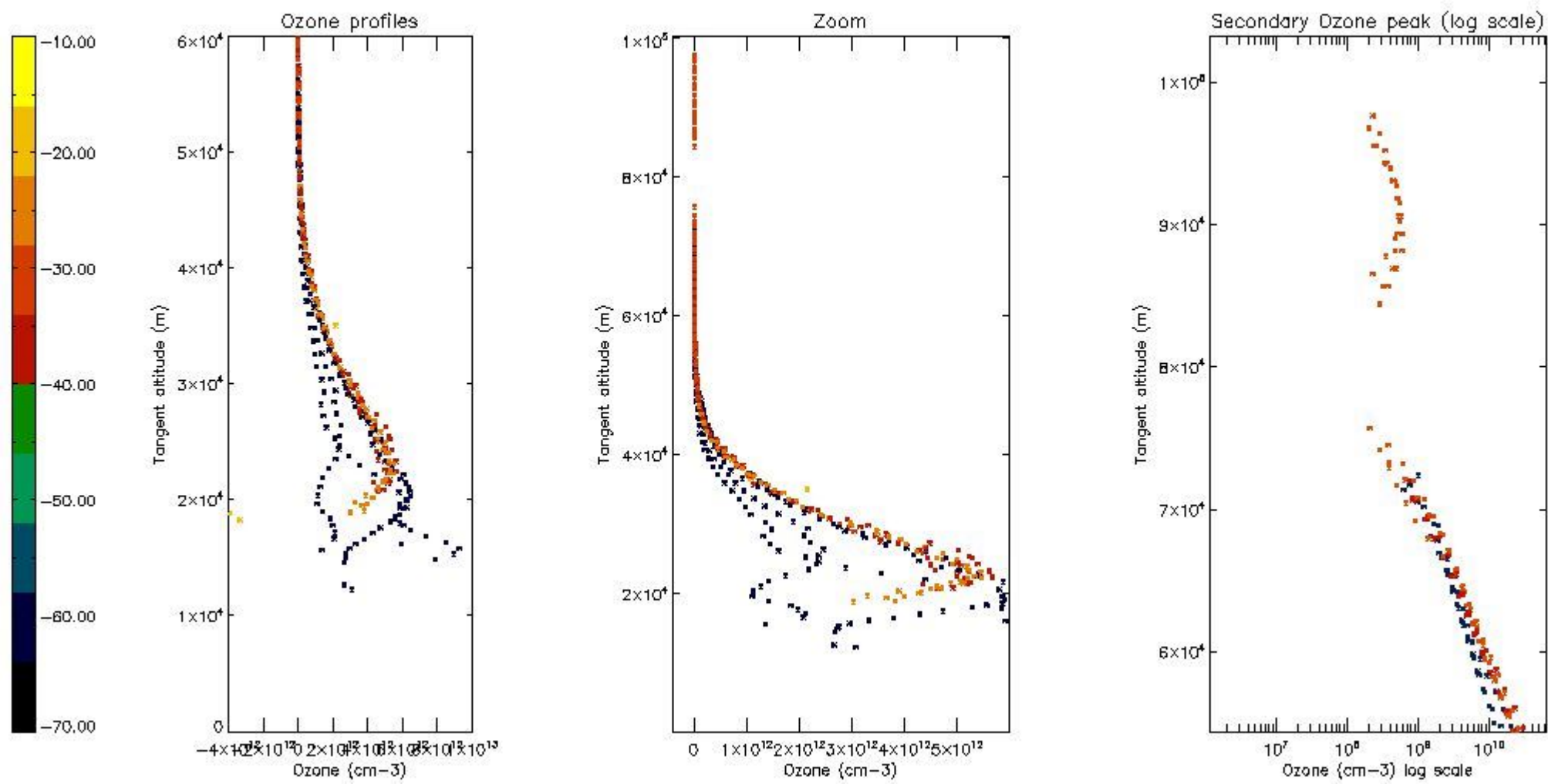
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



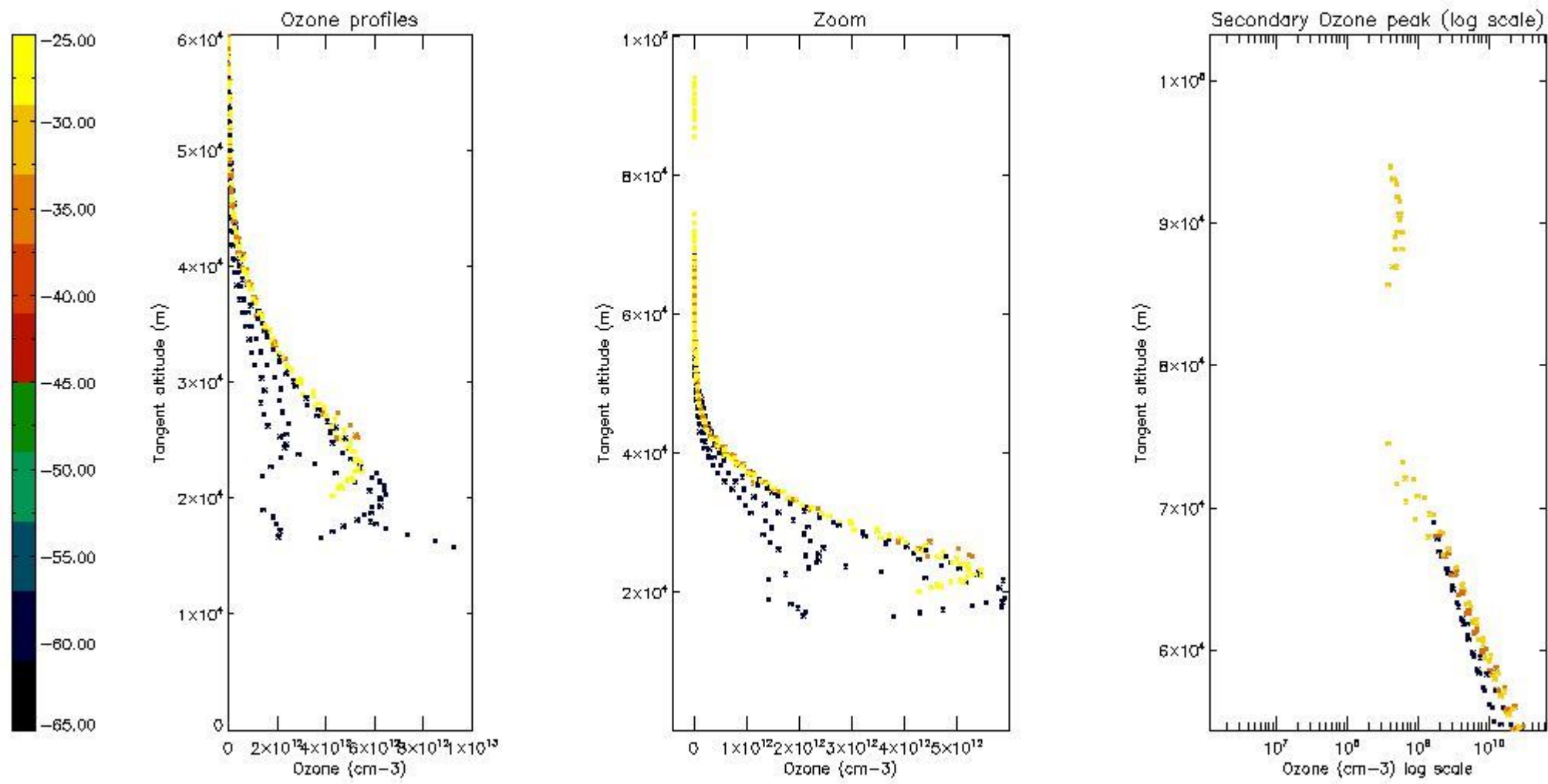
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



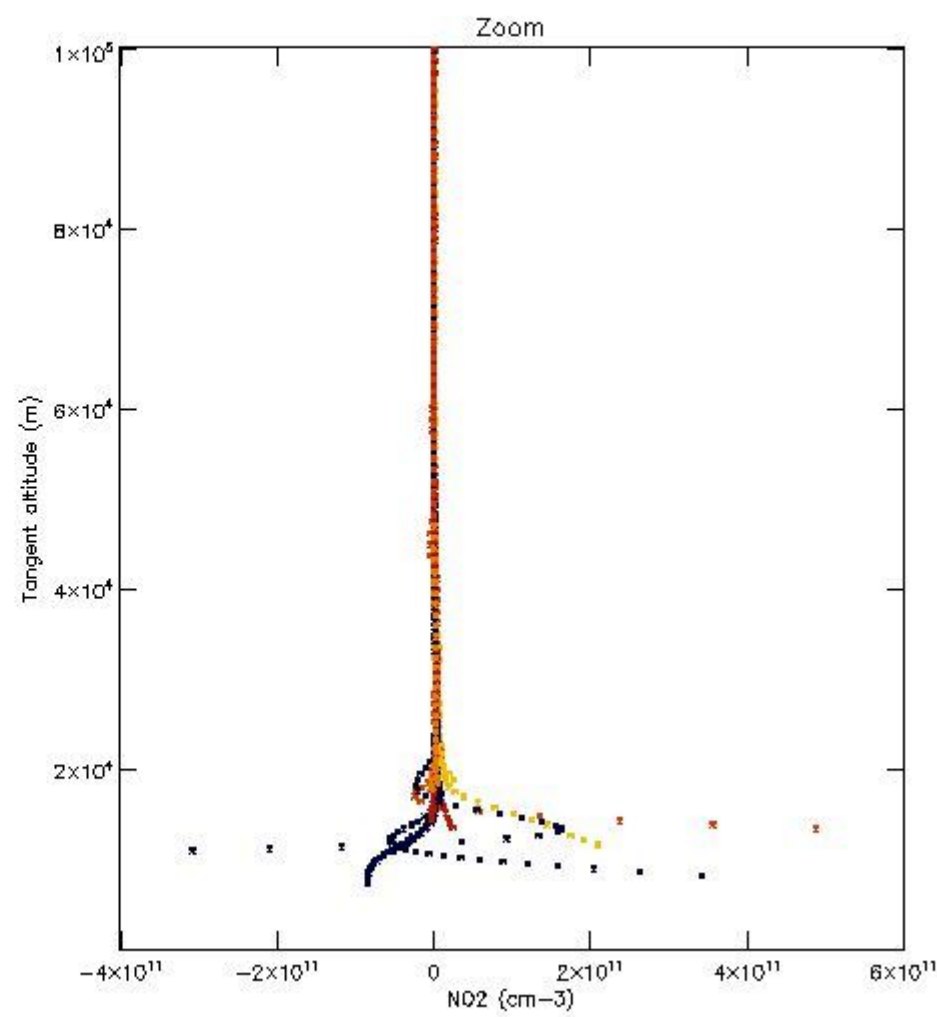
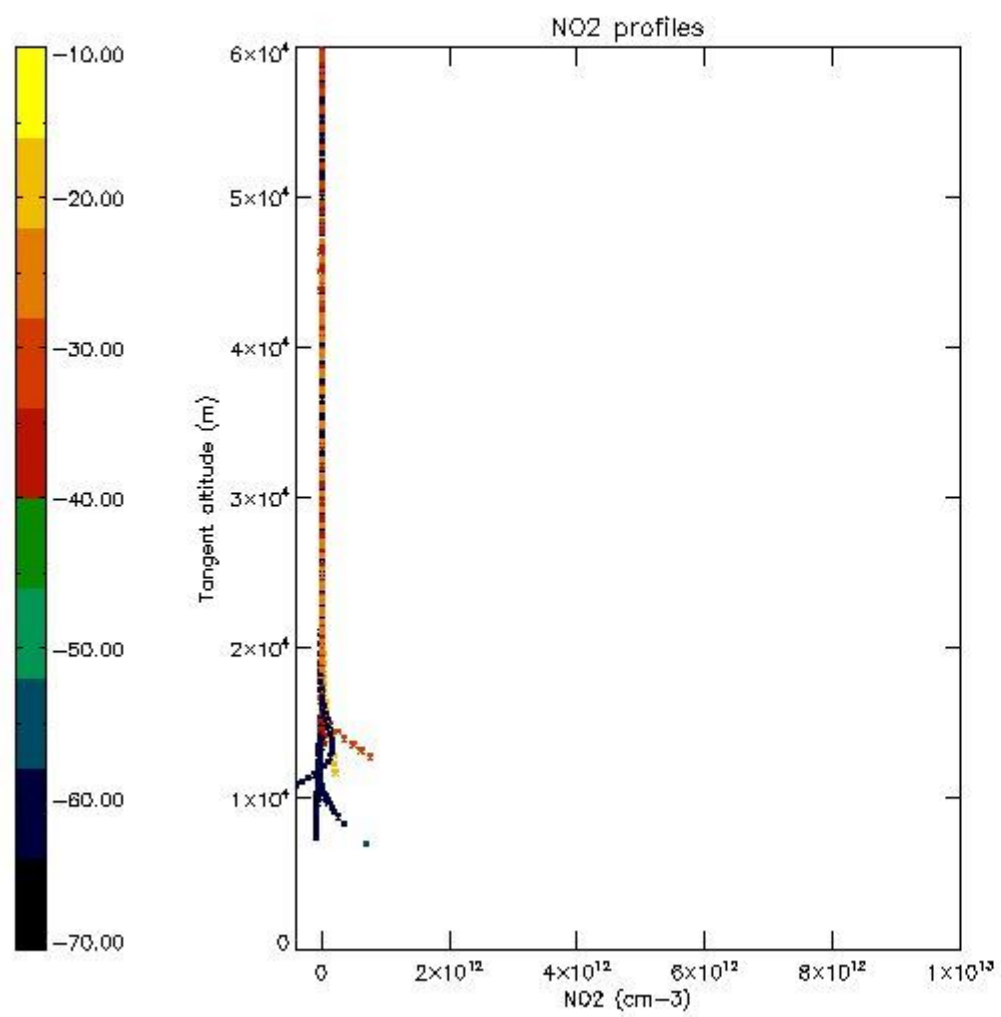
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



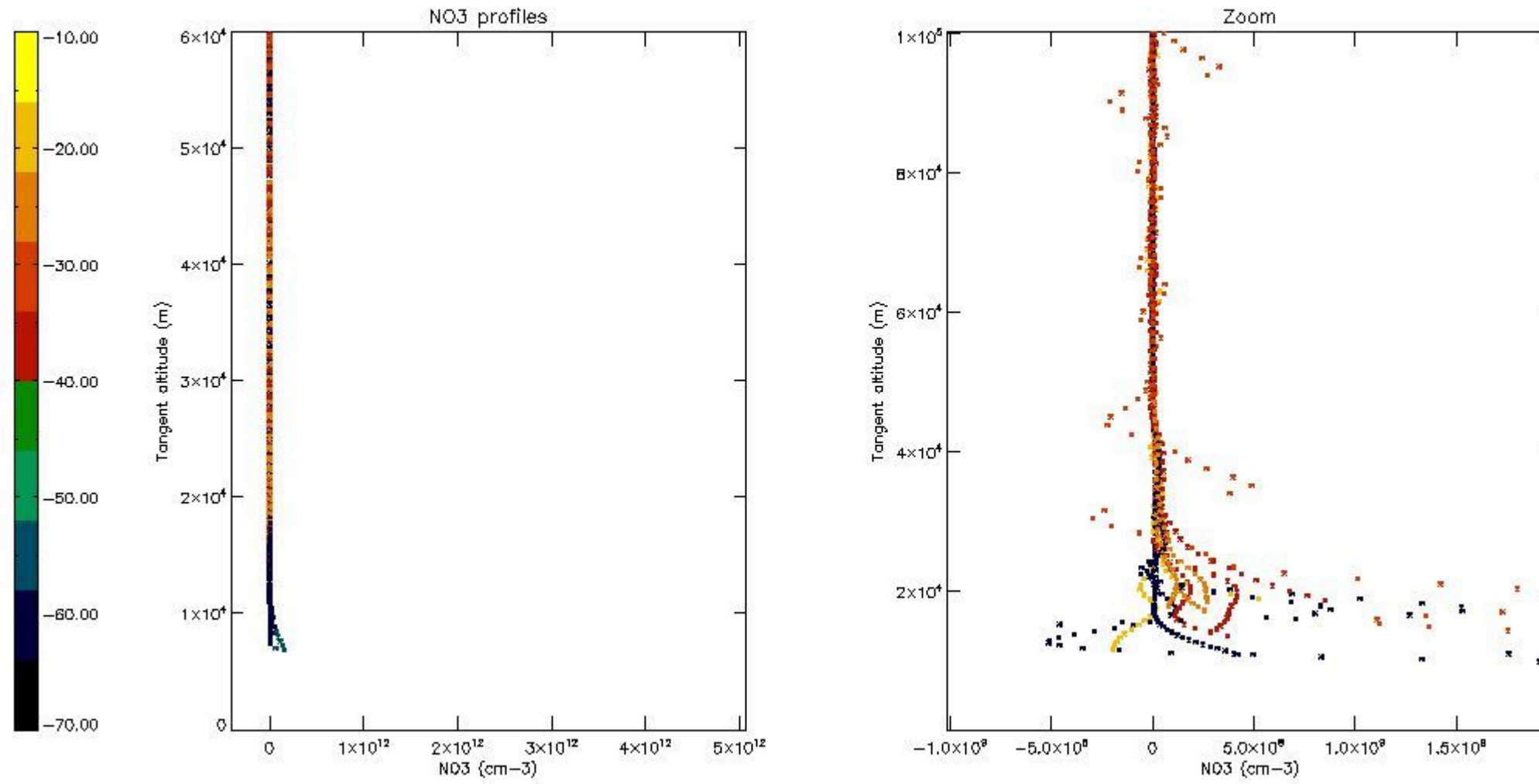
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-SEP-2011 00:09:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-SEP-2011 00:09:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-SEP-2011 00:09:31

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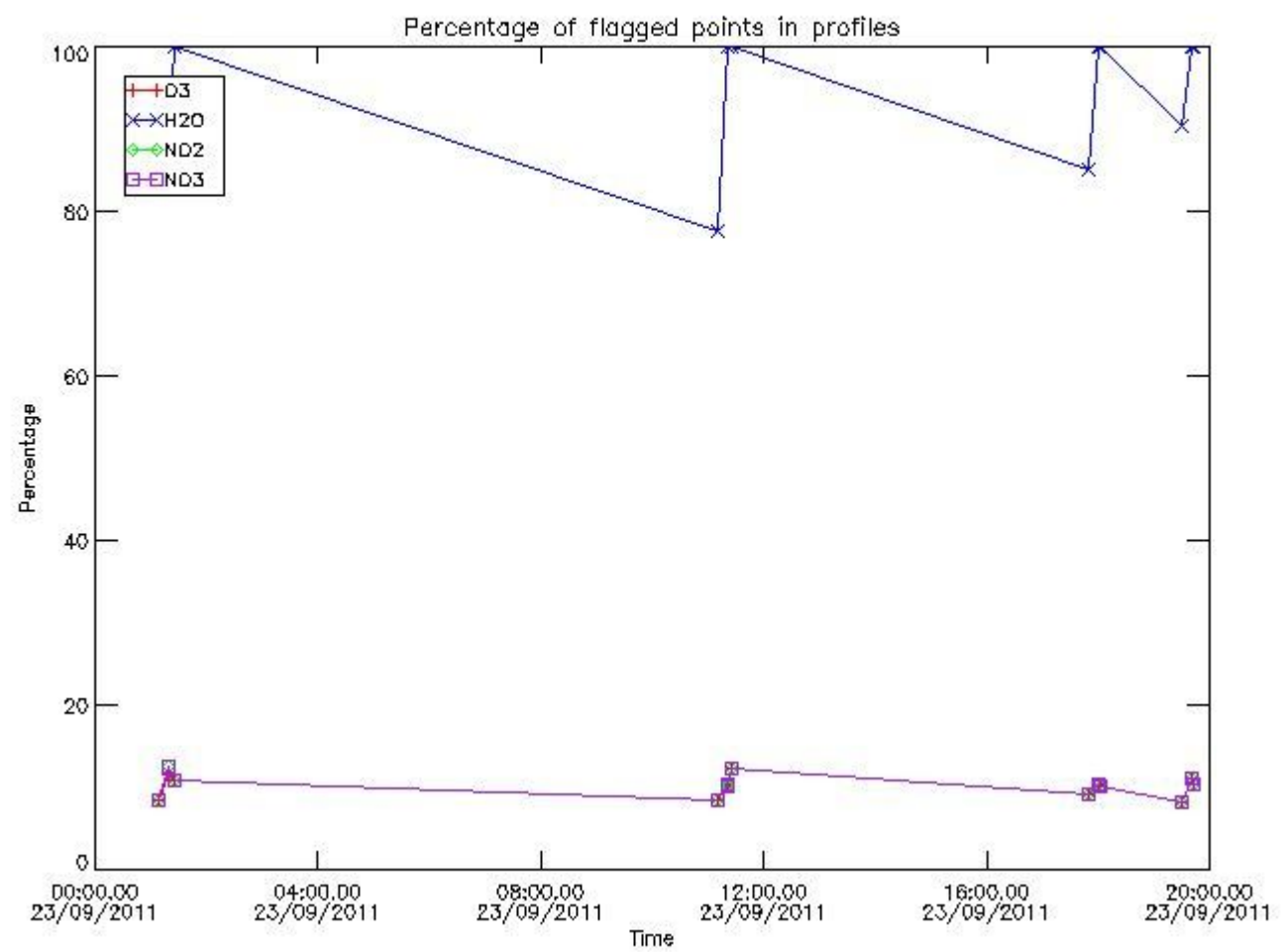
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9	GOM_NL__2PRFIN20110923_105957_000000503107_00008_50022_8638.N1	23-SEP-2011 10:59:57	Bright	49.500	24	66Alp Gem	1.5800	10200.	99	50022	No
10	GOM_NL__2PRFIN20110923_110937_000000613107_00008_50022_8639.N1	23-SEP-2011 11:09:37	Dark	61.000	8	10Alp CMi	0.40000	6500.0	122	50022	No
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16	GOM_NL__2PRFIN20110923_171539_000000393107_00012_50026_8778.N1	23-SEP-2011 17:15:39	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	50026	No
17	GOM_NL__2PRFIN20110923_171711_000000423107_00012_50026_8779.N1	23-SEP-2011 17:17:11	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	50026	No
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19	GOM_NL__2PRFIN20110923_175036_000000673107_00012_50026_8781.N1	23-SEP-2011 17:50:36	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	50026	No
20	GOM_NL__2PRFIN20110923_180108_000000493107_00012_50026_8782.N1	23-SEP-2011 18:01:08	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	50026	No
21	GOM_NL__2PRFIN20110923_180234_000000503107_00012_50026_8783.N1	23-SEP-2011 18:02:34	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	50026	No
22	GOM_NL__2PRFIN20110923_183206_000000523107_00013_50027_8801.N1	23-SEP-2011 18:32:06	Twilight	51.500	52	16Bet Cet	2.0370	4500.0	103	50027	No
23	GOM_NL__2PRFIN20110923_185553_000000403107_00013_50027_8802.N1	23-SEP-2011 18:55:53	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	50027	No
24	GOM_NL__2PRFIN20110923_185725_000000423107_00013_50027_8803.N1	23-SEP-2011 18:57:25	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	50027	No
25	GOM_NL__2PRFIN20110923_192107_000000523107_00013_50027_8804.N1	23-SEP-2011 19:21:07	Bright	52.000	24	66Alp Gem	1.5800	10200.	104	50027	No
26	GOM_NL__2PRFIN20110923_193051_000000683107_00013_50027_8805.N1	23-SEP-2011 19:30:51	Dark	67.500	8	10Alp CMi	0.40000	6500.0	135	50027	No
27	GOM_NL__2PRFIN20110923_194122_000000463107_00013_50027_8806.N1	23-SEP-2011 19:41:22	Dark	45.500	88	31Eta CMa	2.4480	20000.	91	50027	No
28	GOM_NL__2PRFIN20110923_194249_000000493107_00013_50027_8807.N1	23-SEP-2011 19:42:49	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	50027	No

3. Quality information per product

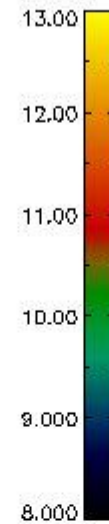
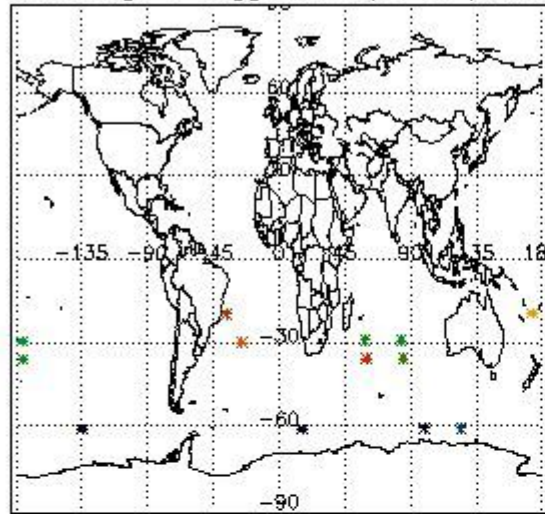
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

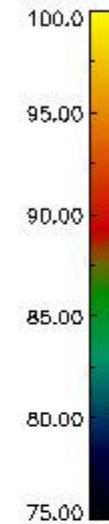
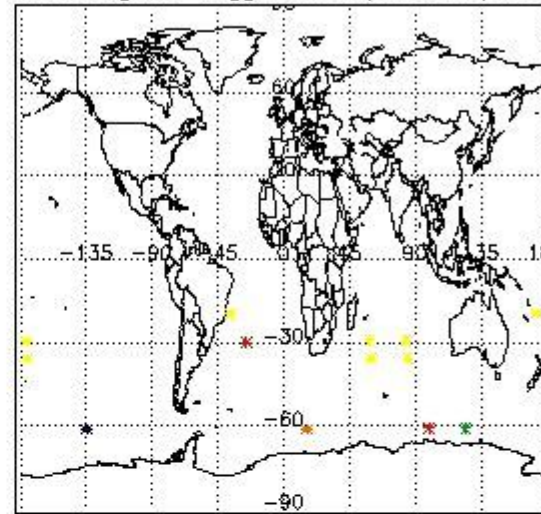


3.2 Plot quality information per product (world map)

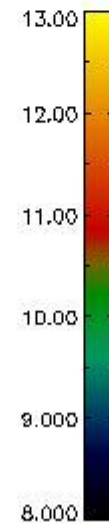
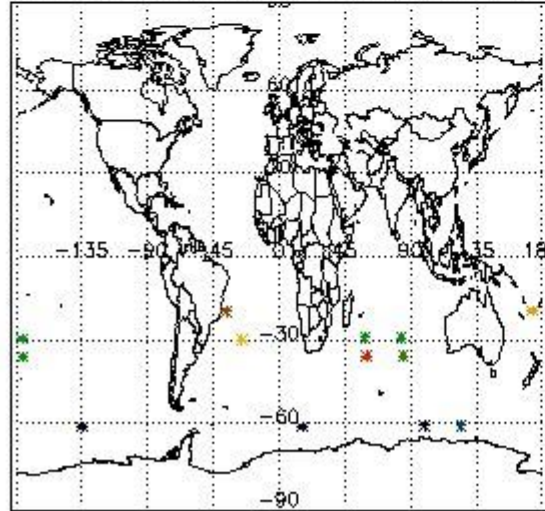
Percentage of flagged data per O3 profile



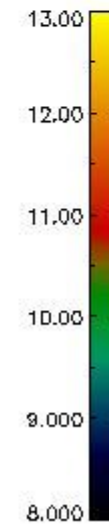
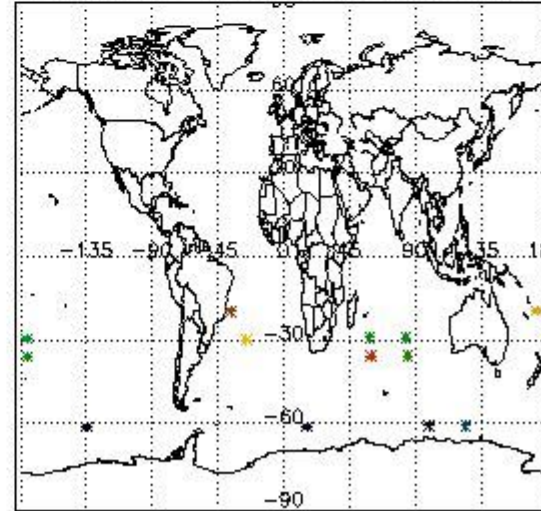
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

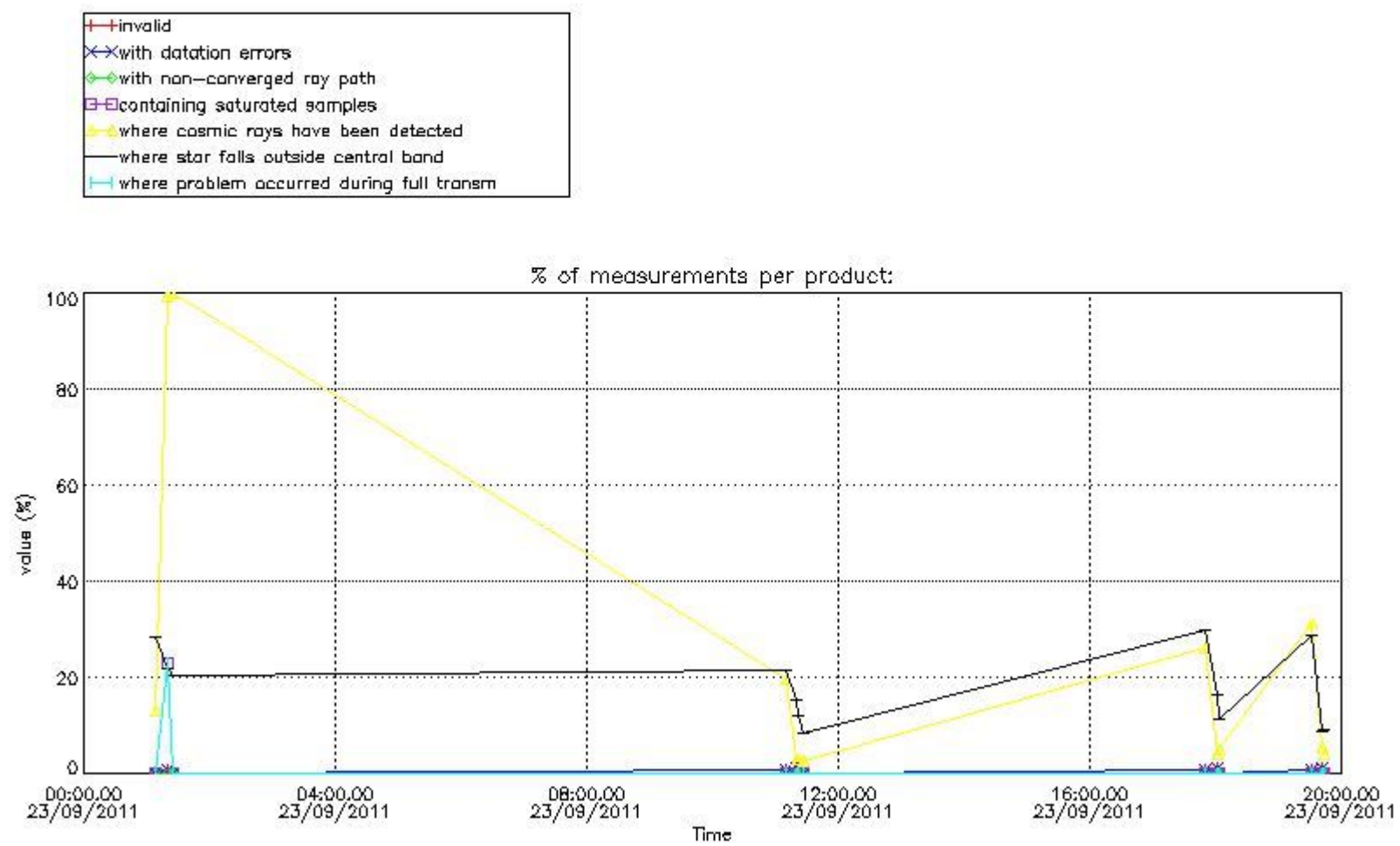


4. Level 1 quality information per product

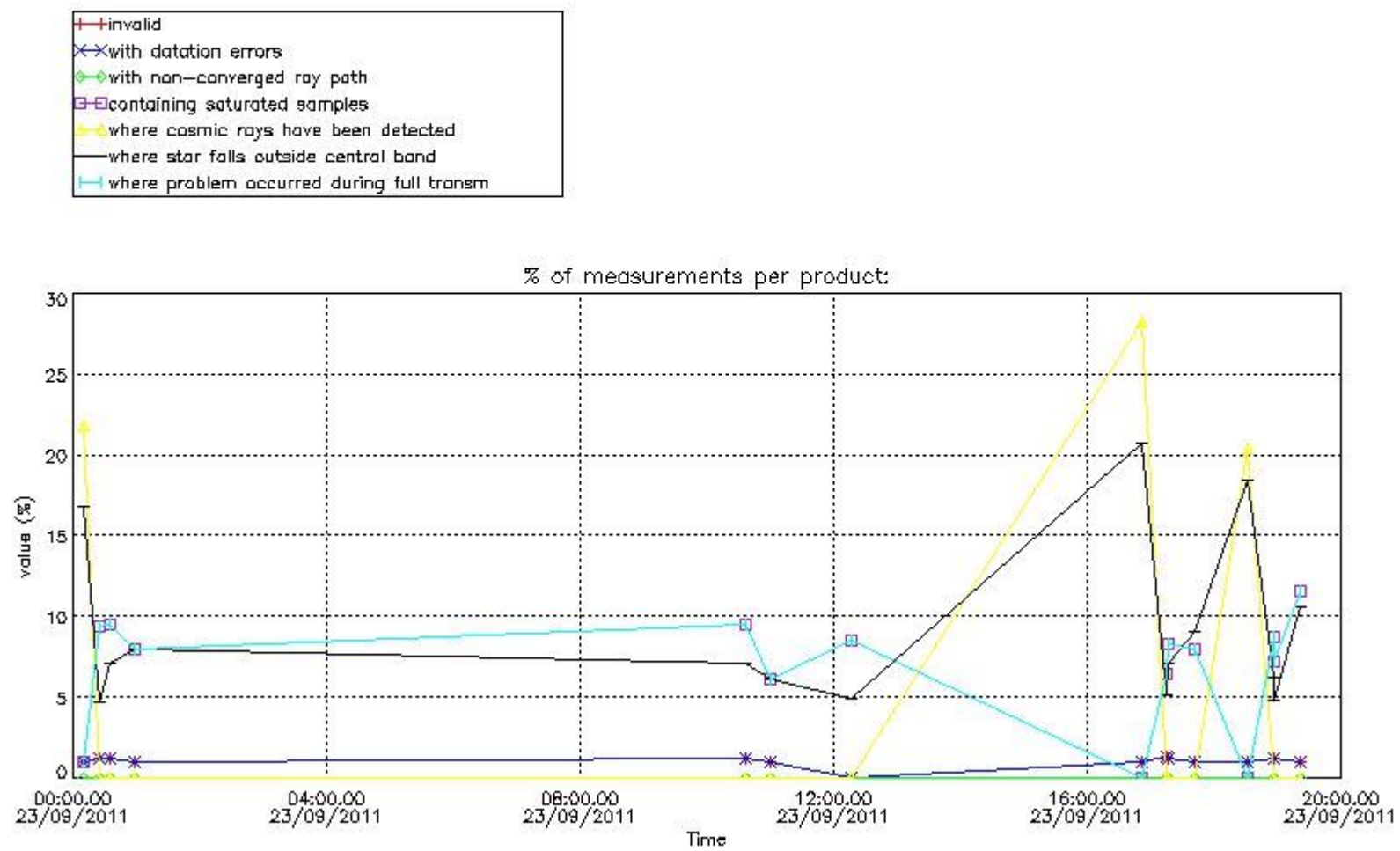
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



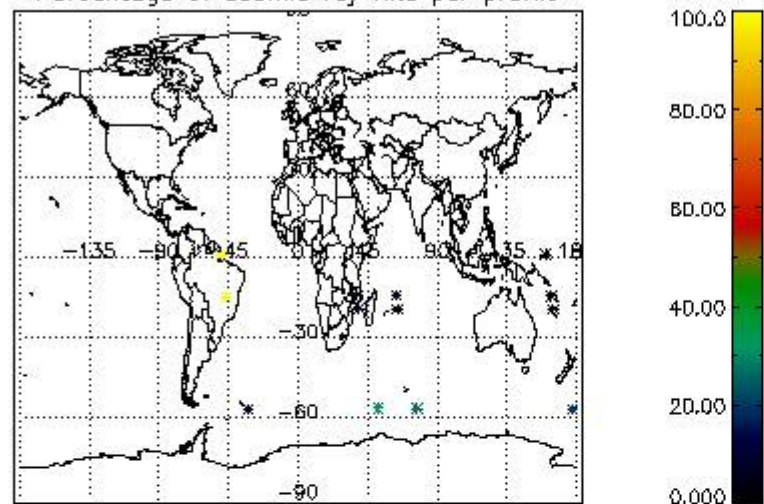
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



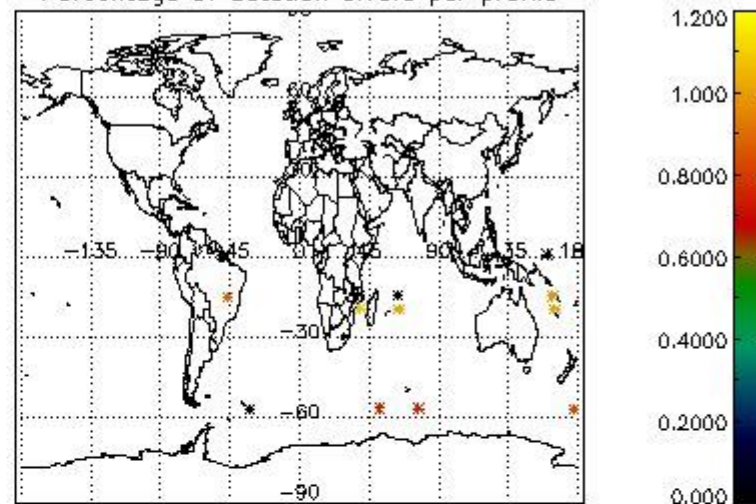
4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

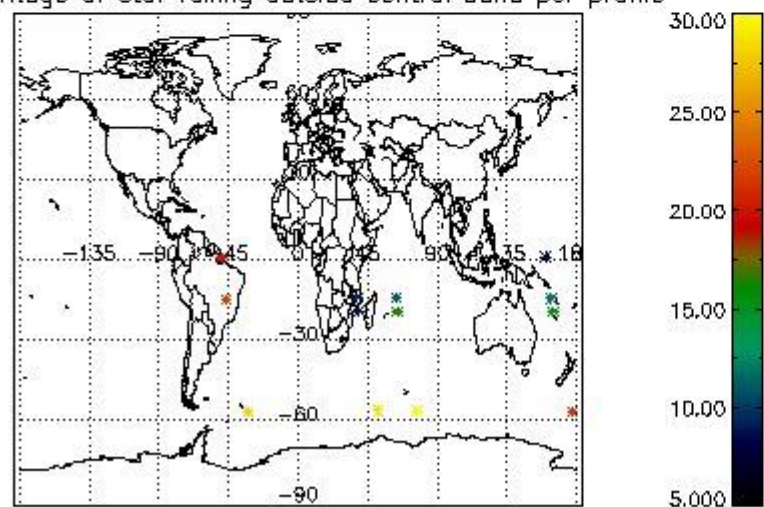
Percentage of cosmic ray hits per profile



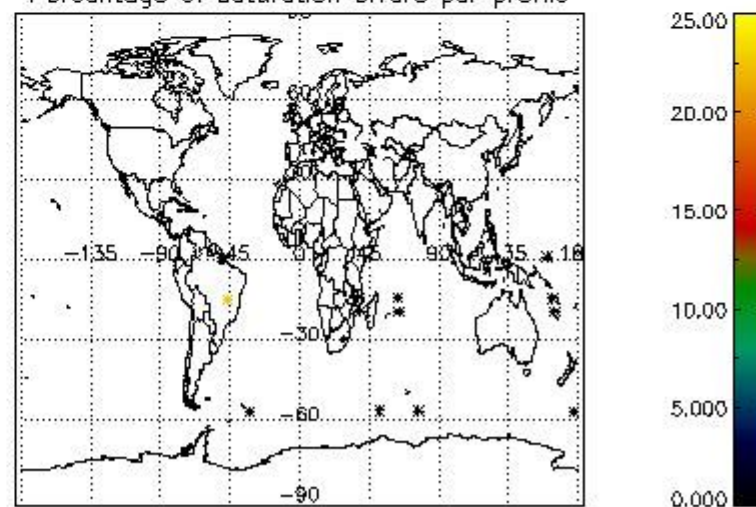
Percentage of datation errors per profile



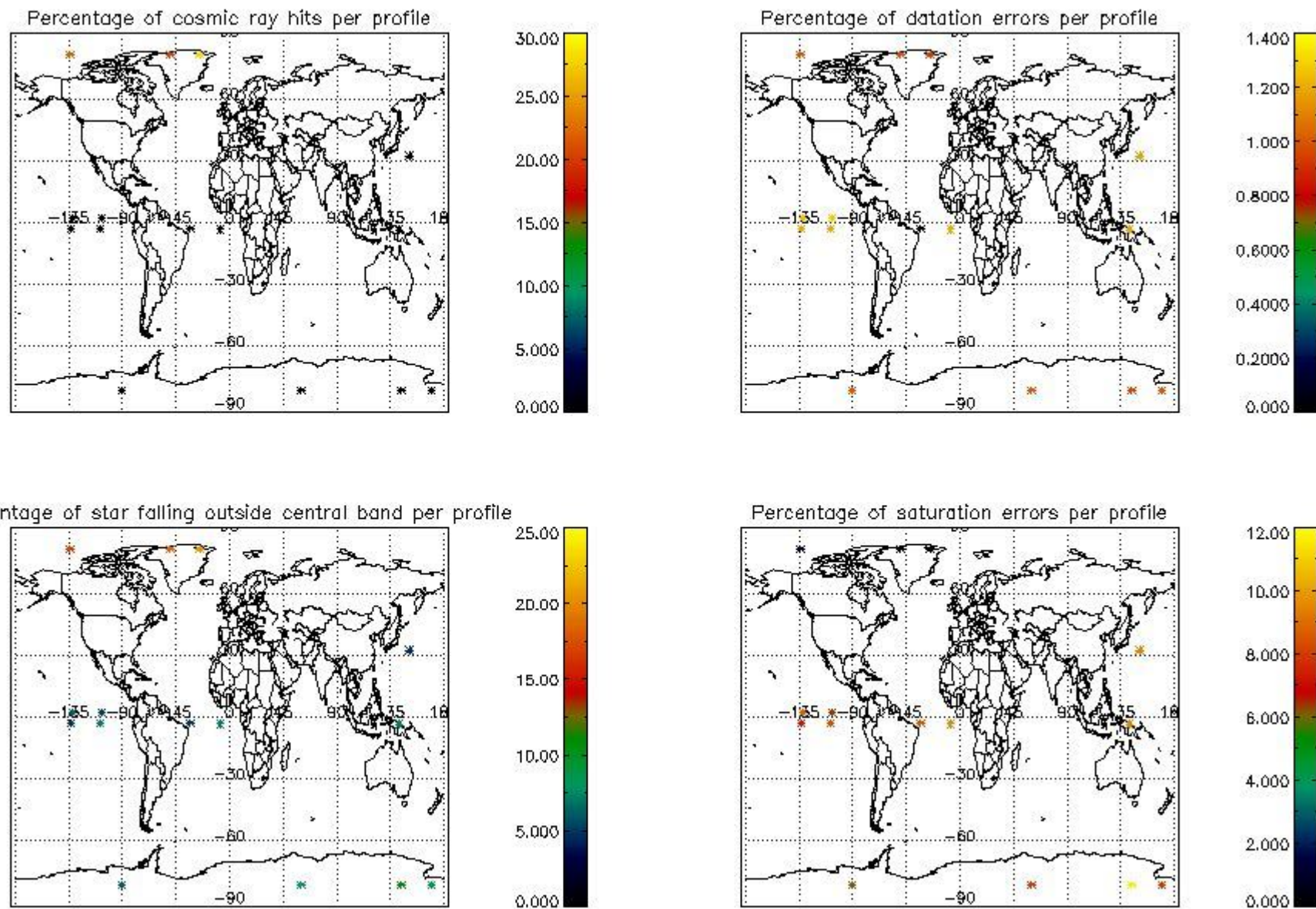
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

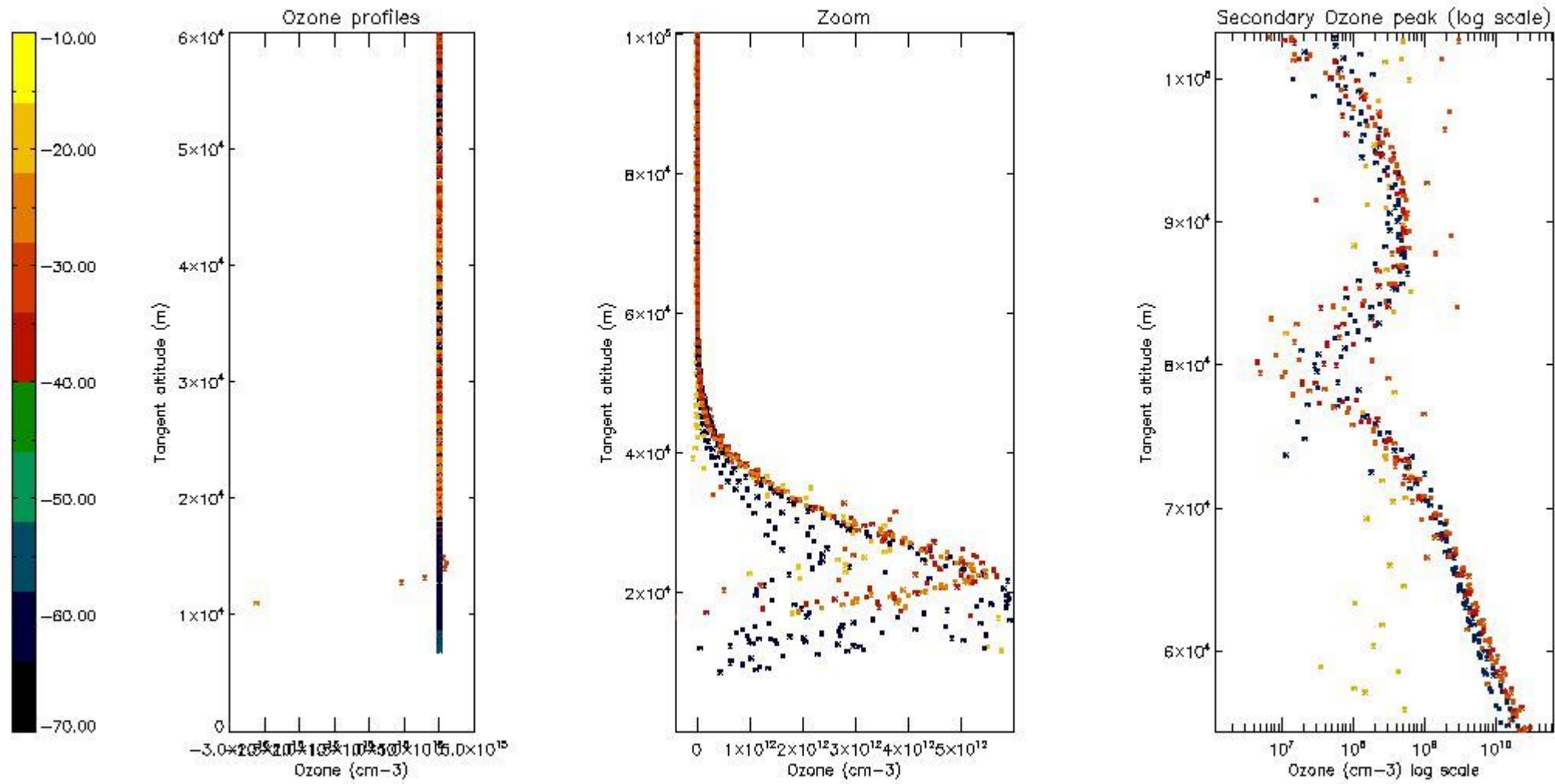
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	26

STD < 10	21
STD < 5	17

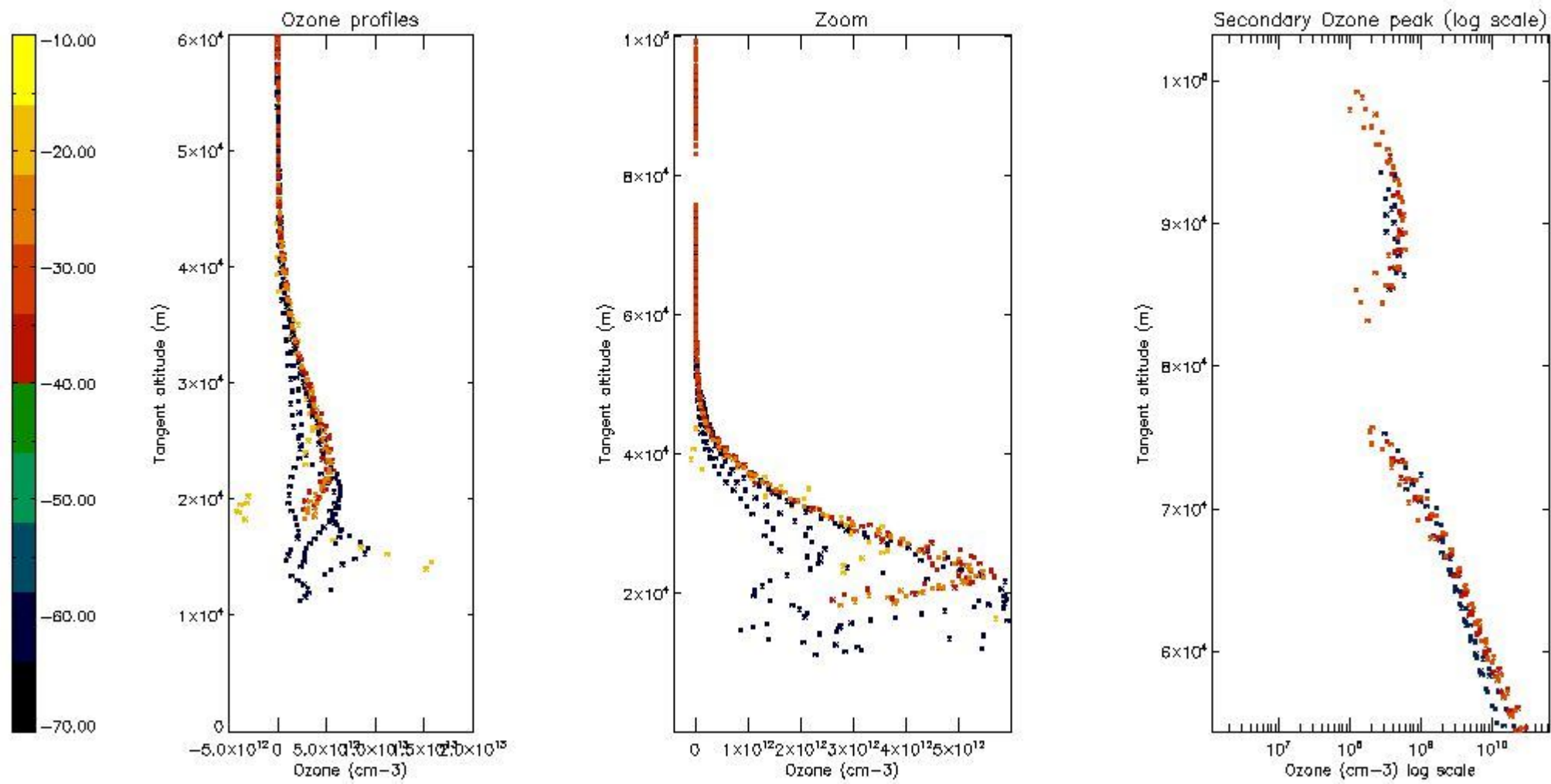
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



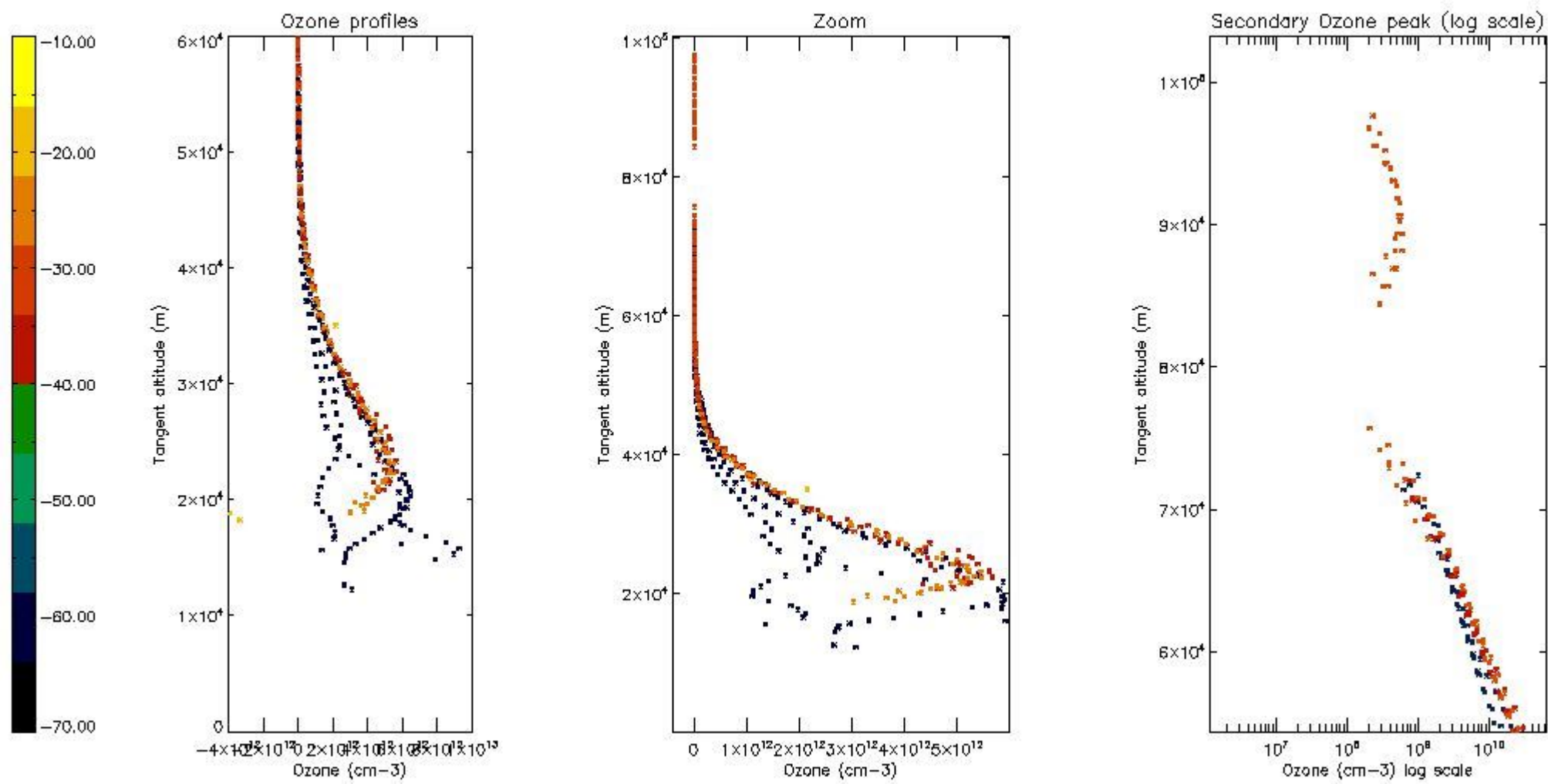
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



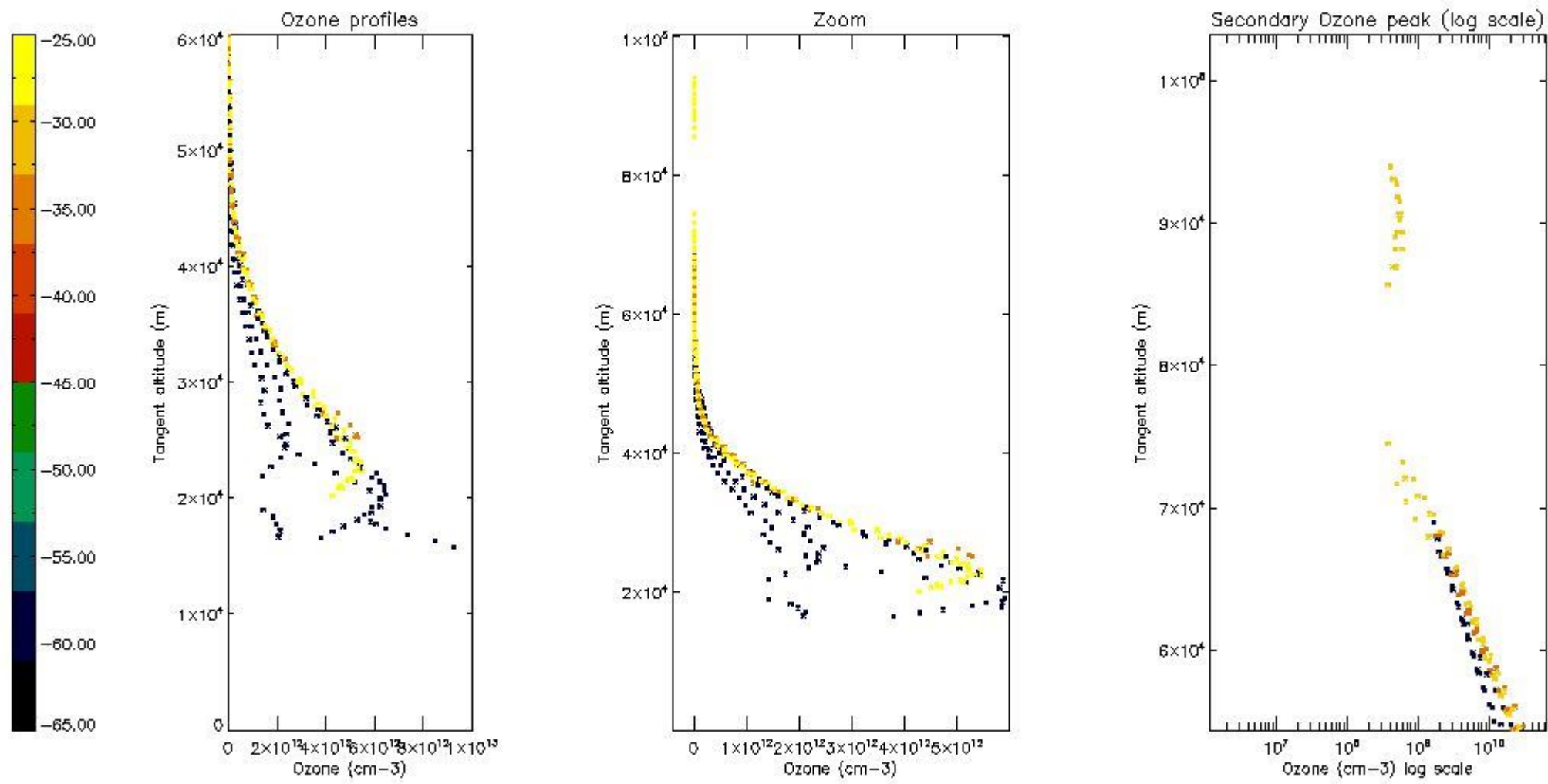
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



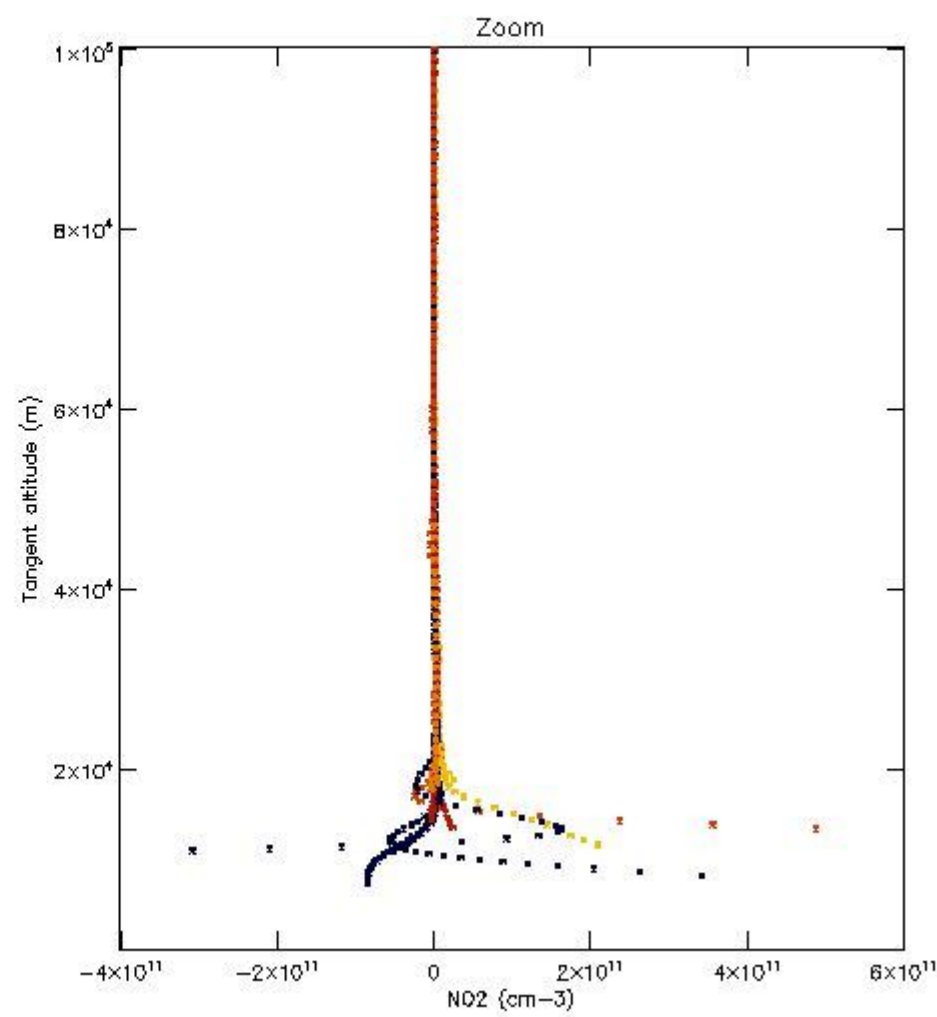
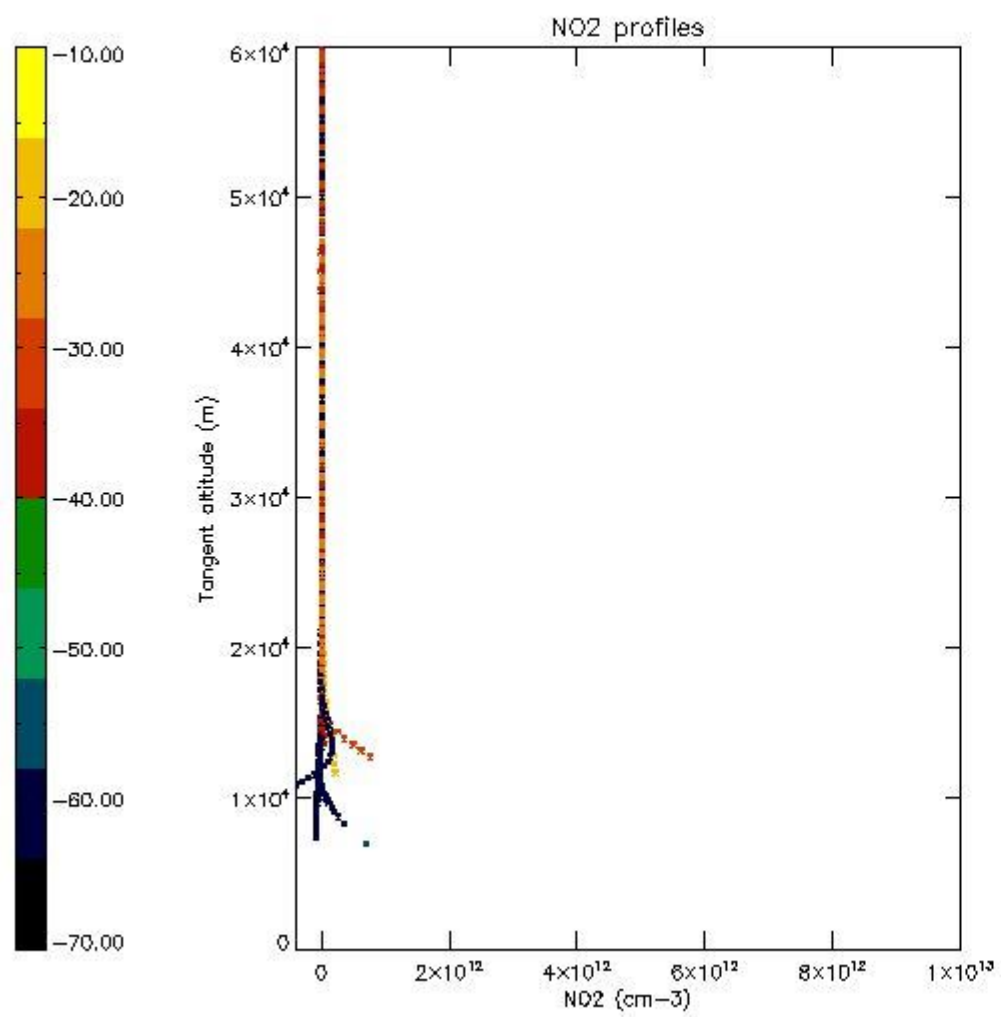
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



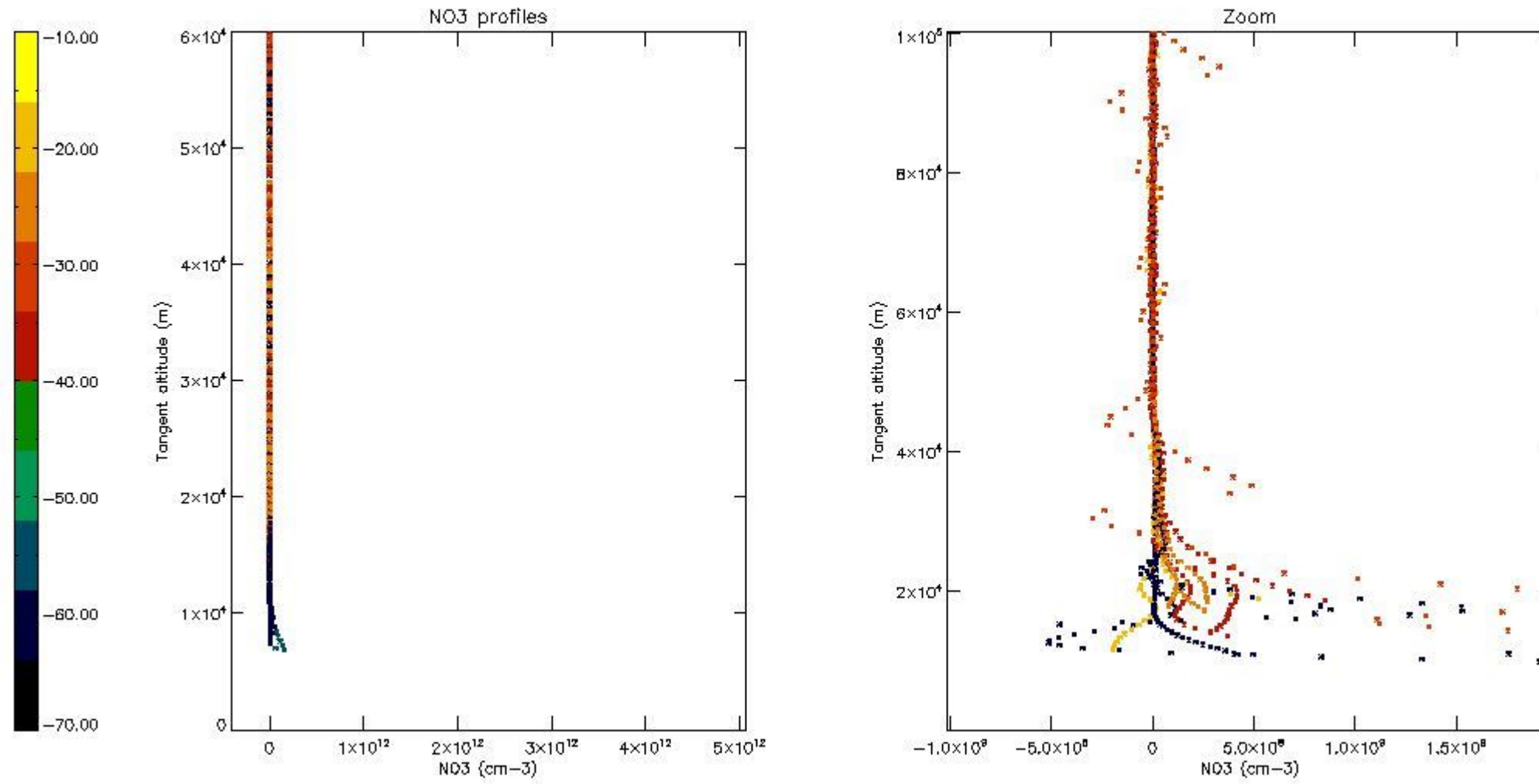
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

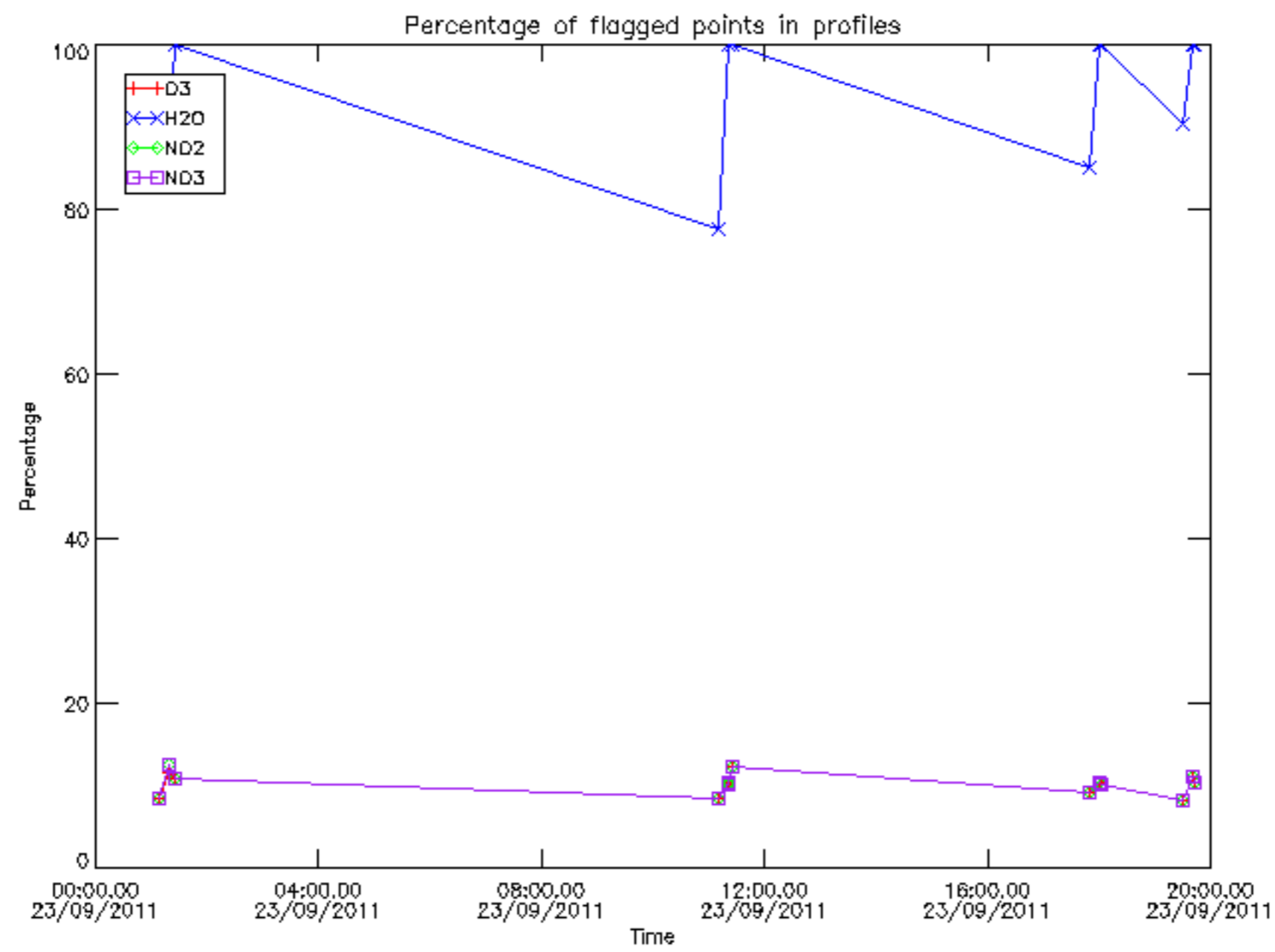
The colorbar represents the latitude.



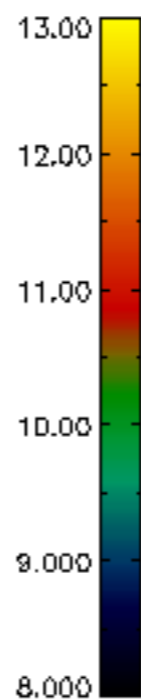
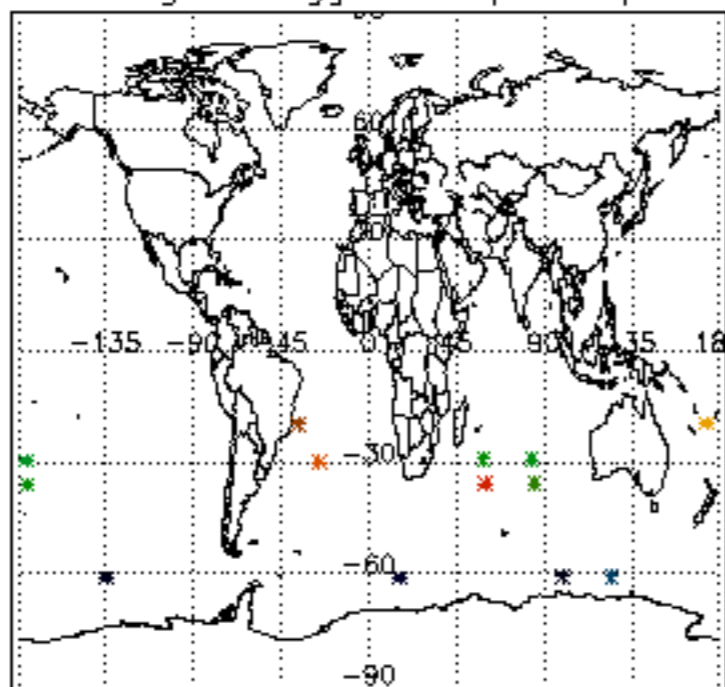
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

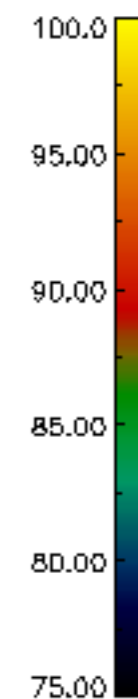
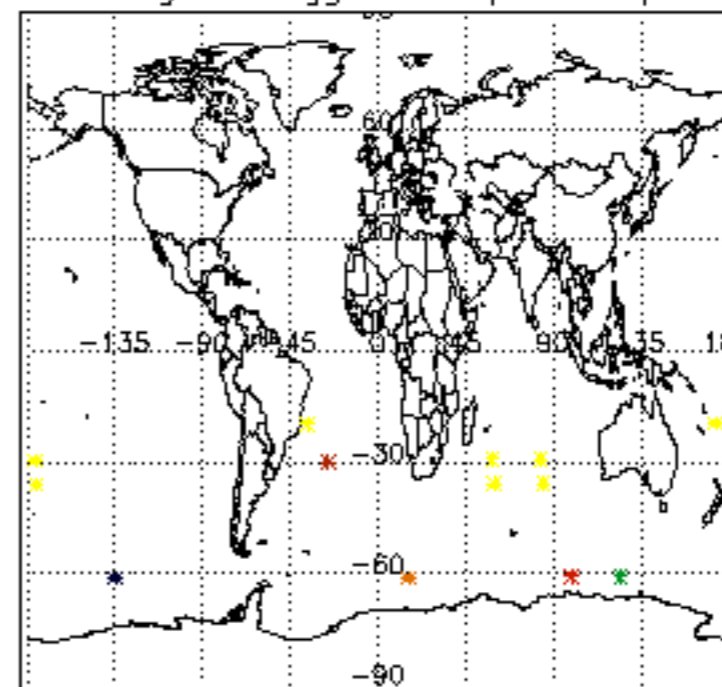
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-SEP-2011 00:09:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-SEP-2011 00:09:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-SEP-2011 00:09:31



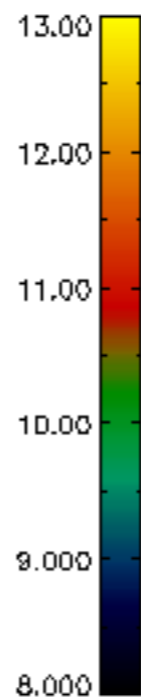
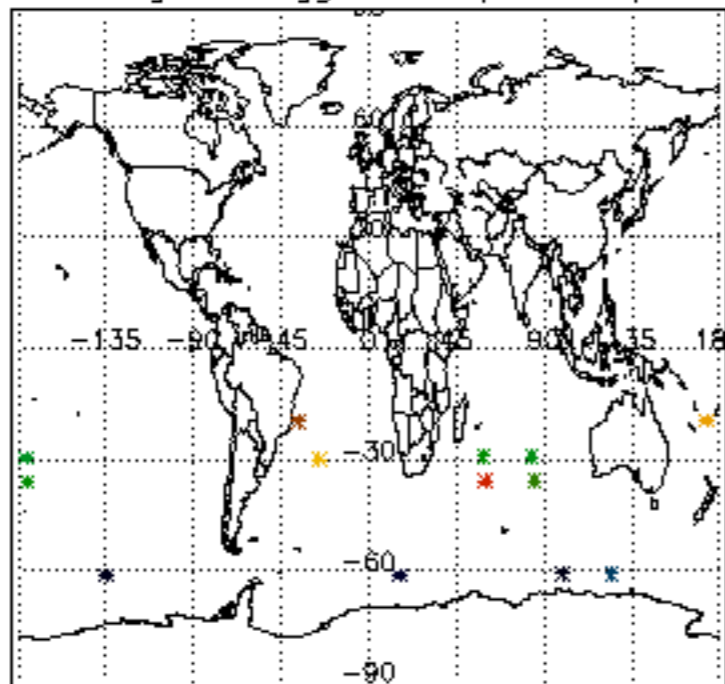
Percentage of flagged data per D3 profile



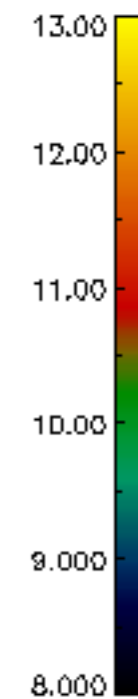
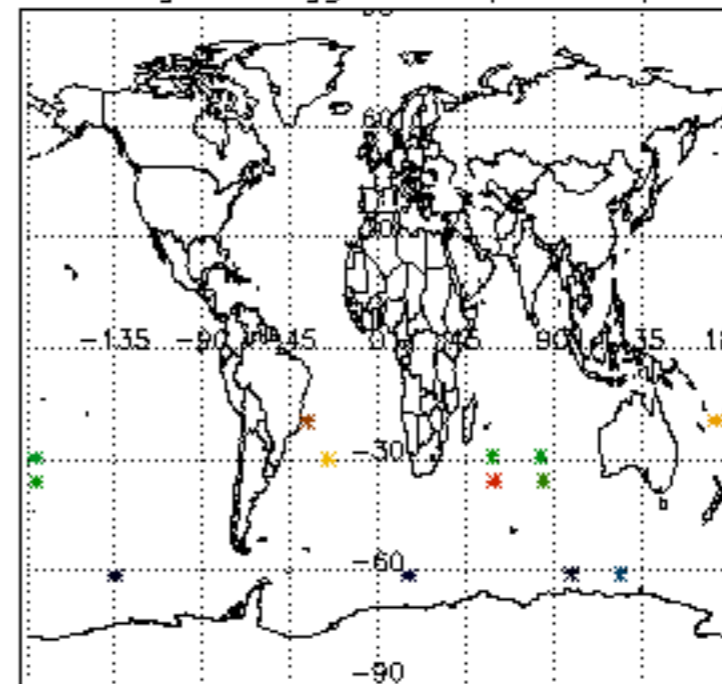
Percentage of flagged data per H2O profile

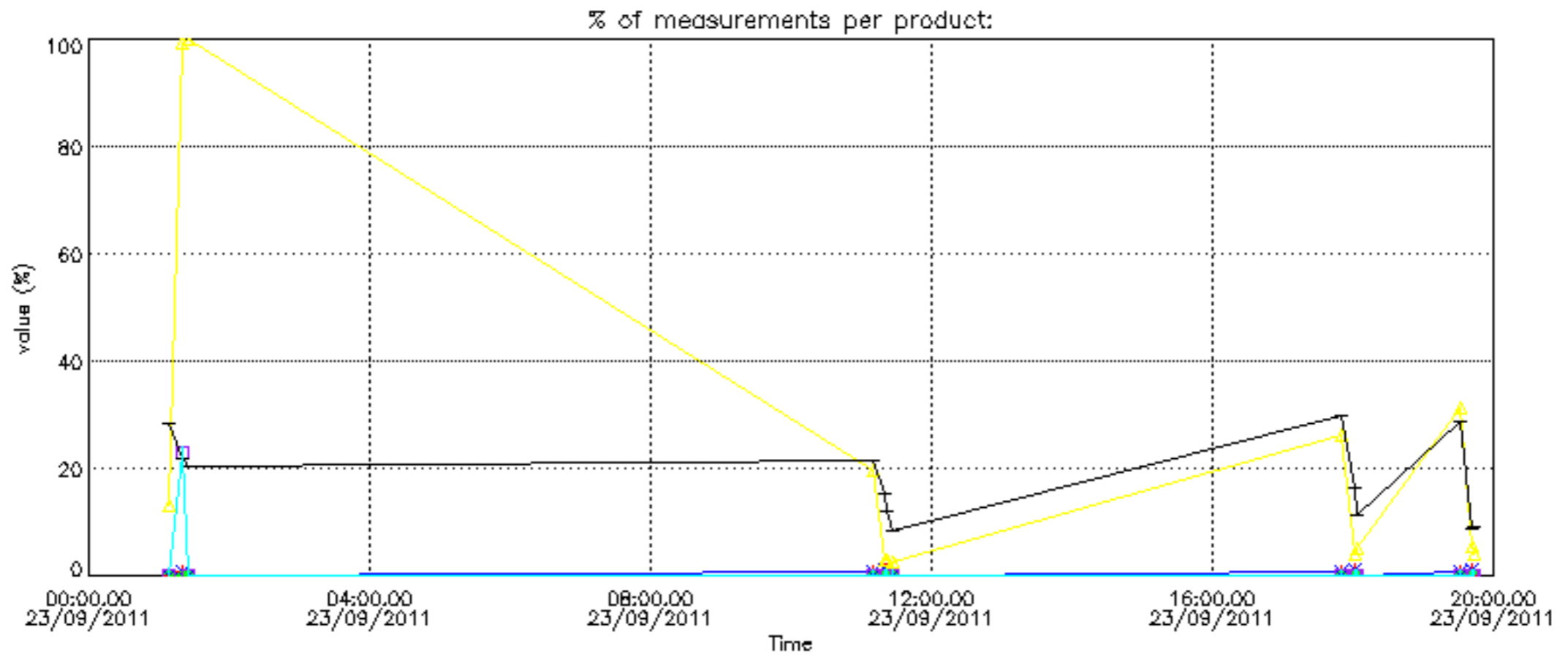


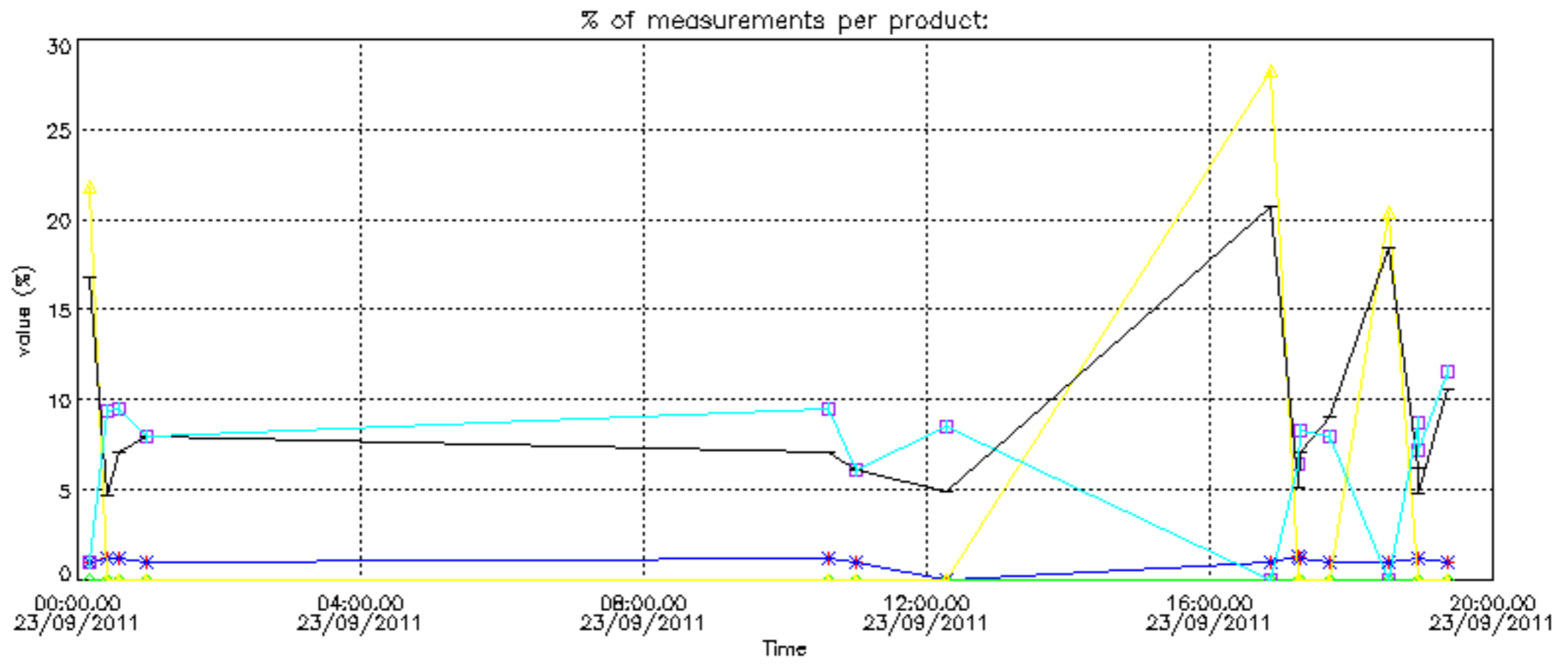
Percentage of flagged data per NO2 profile



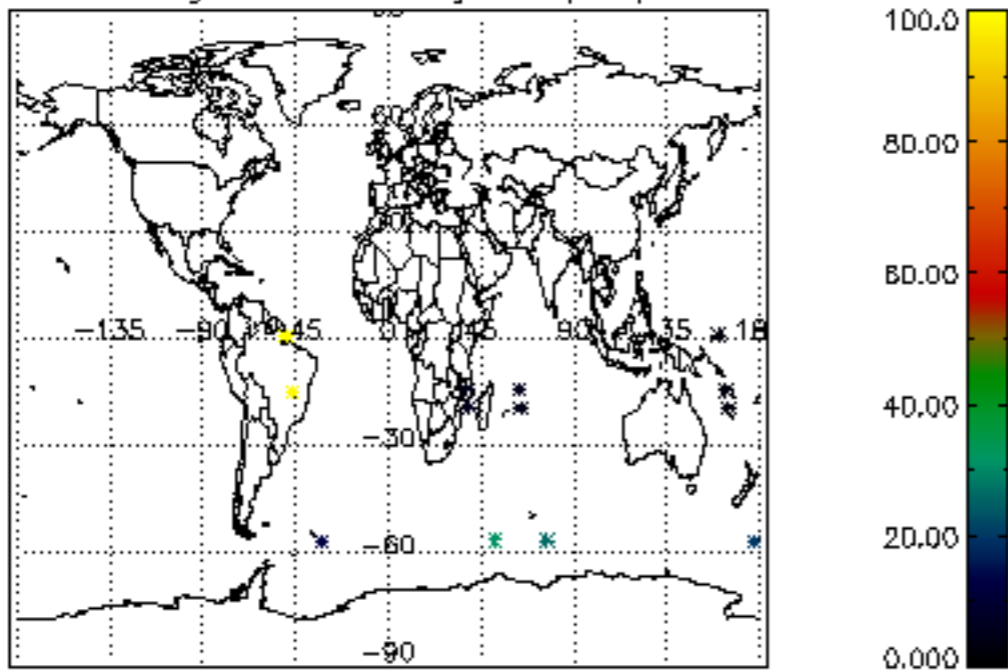
Percentage of flagged data per NO3 profile



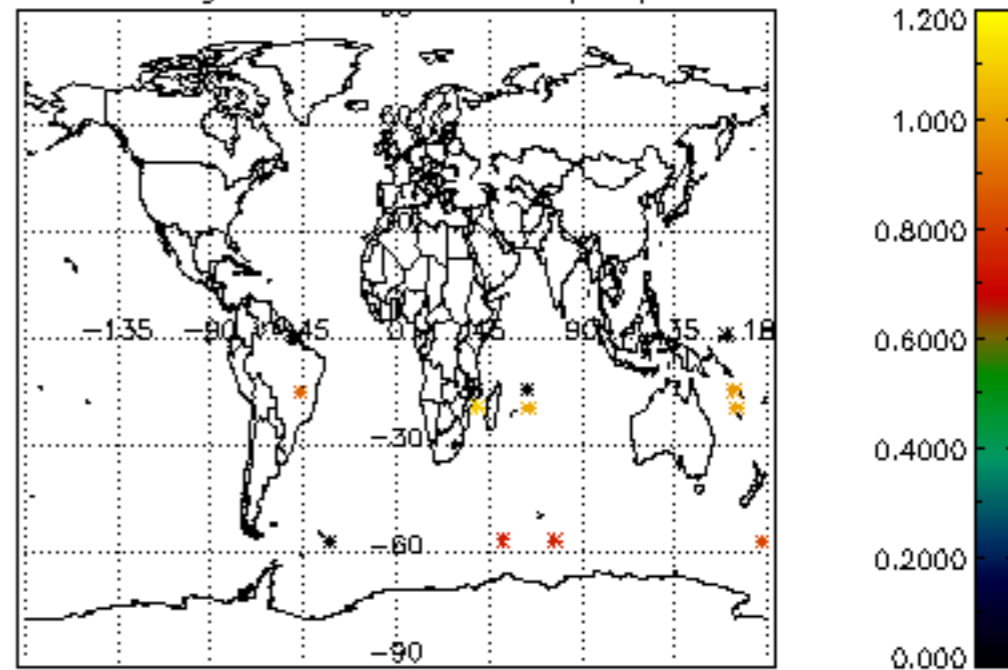




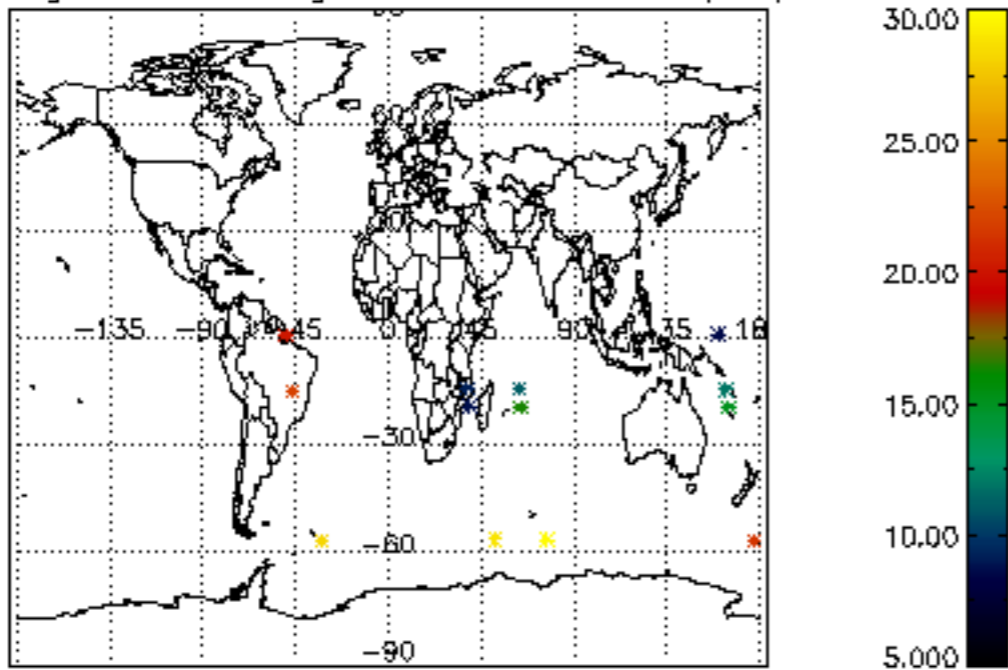
Percentage of cosmic ray hits per profile



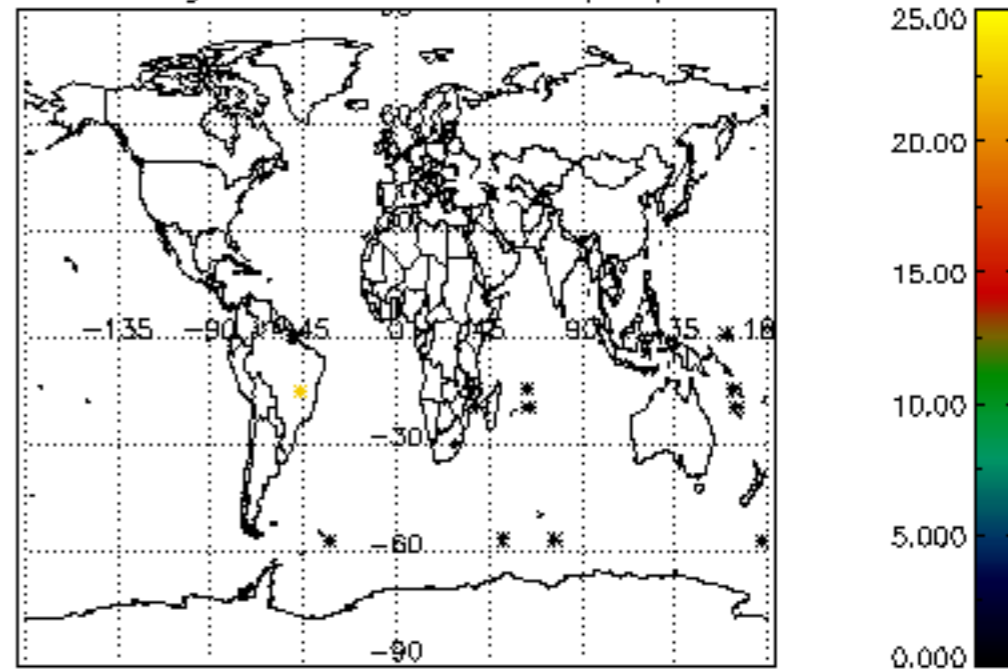
Percentage of datation errors per profile



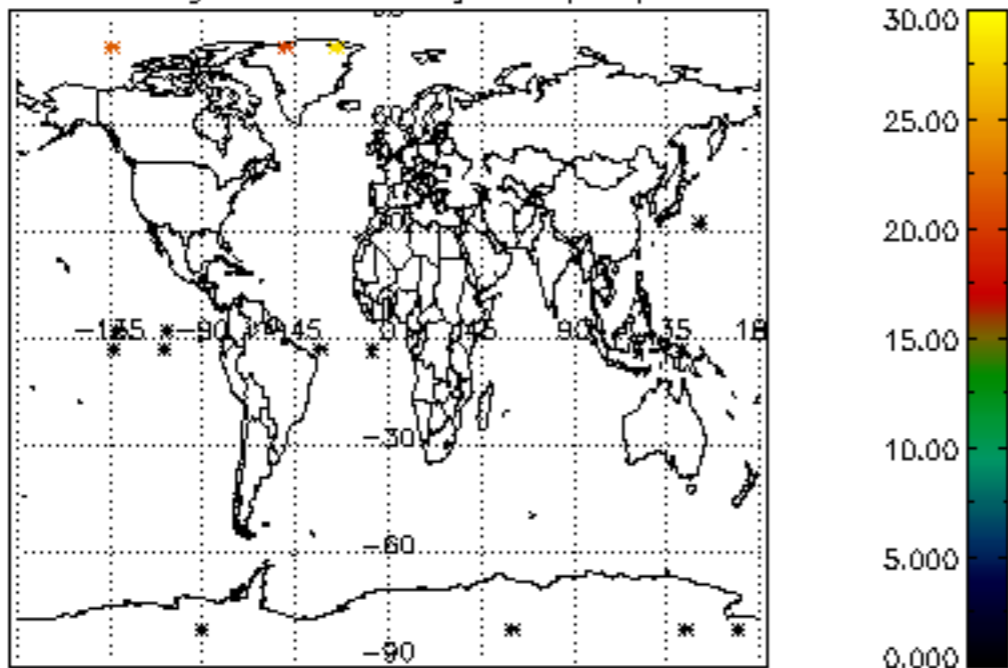
Percentage of star falling outside central band per profile



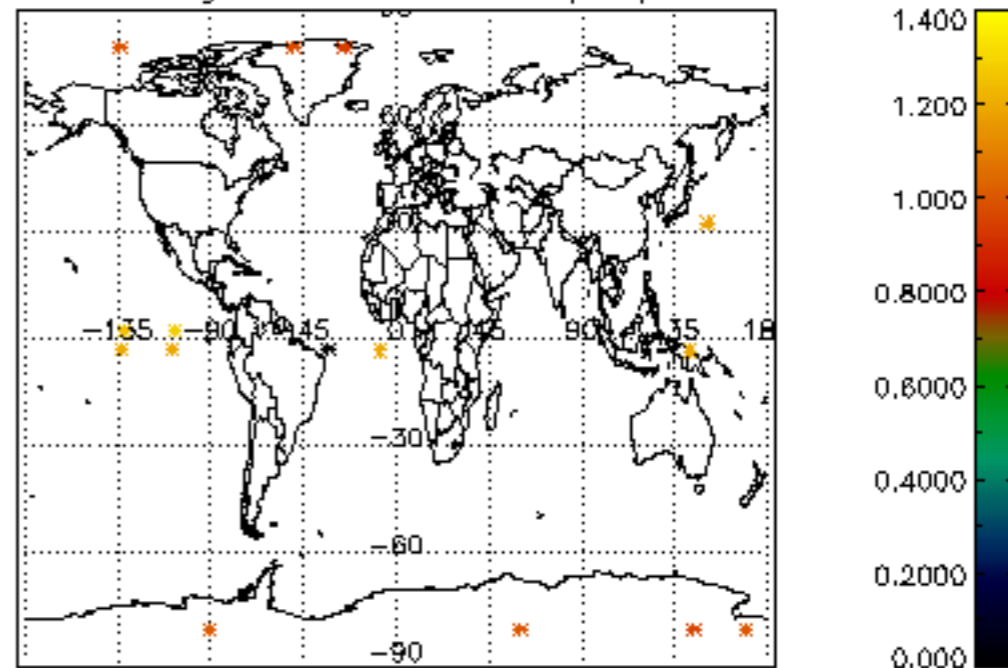
Percentage of saturation errors per profile



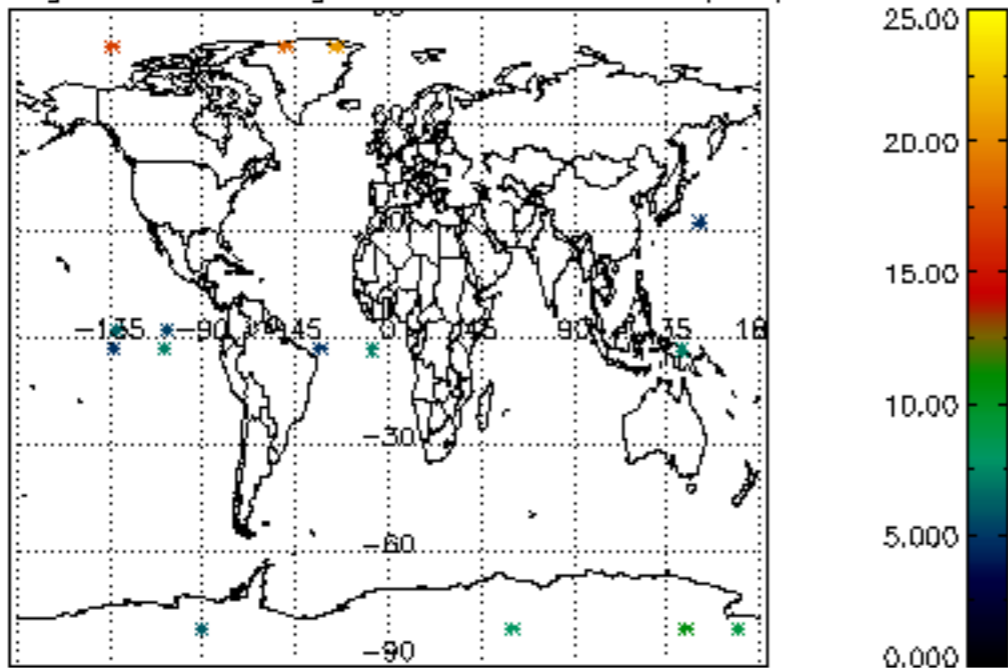
Percentage of cosmic ray hits per profile



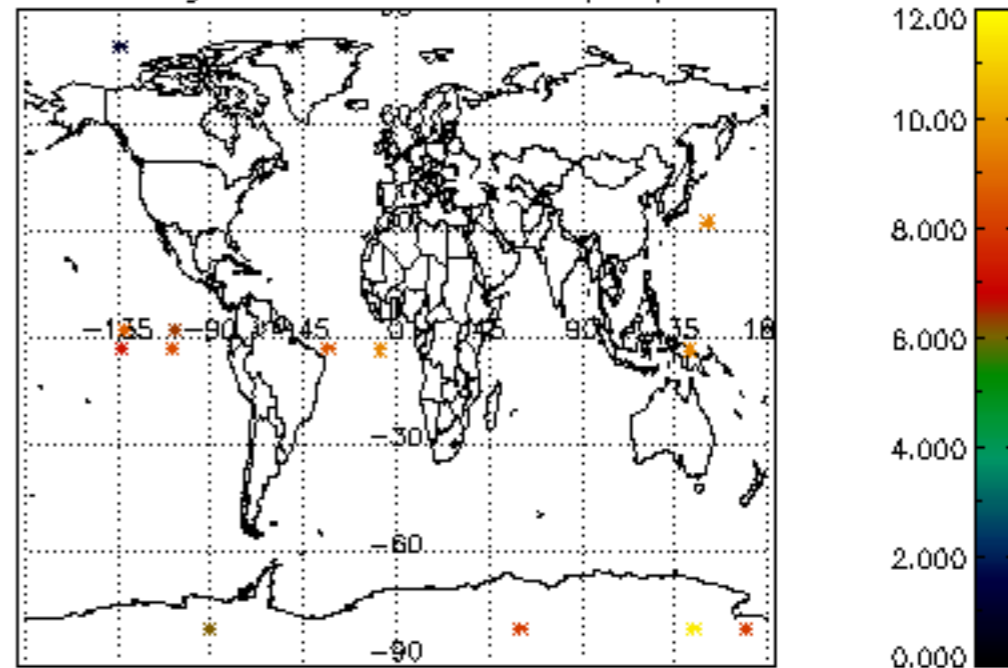
Percentage of datation errors per profile

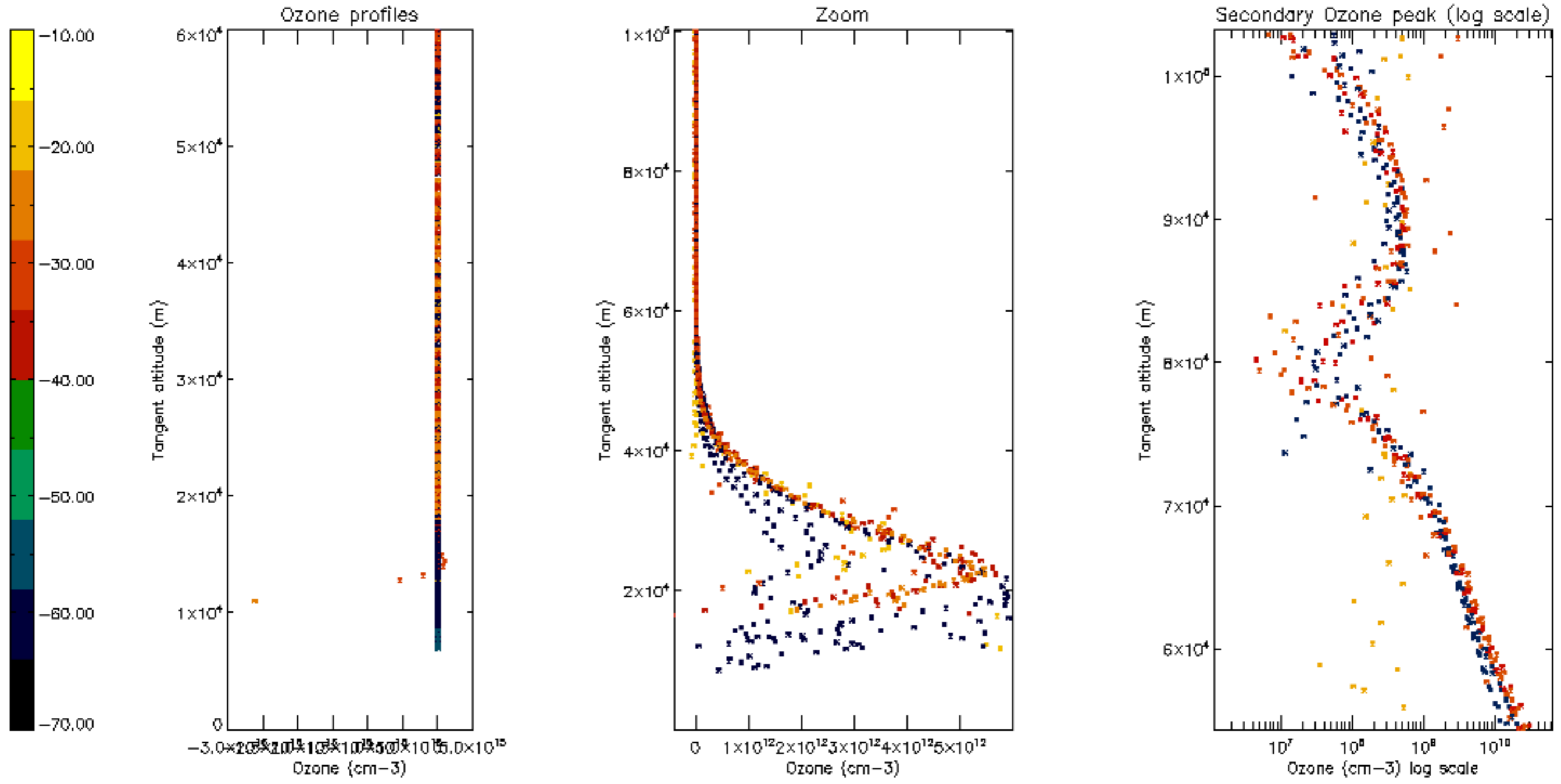


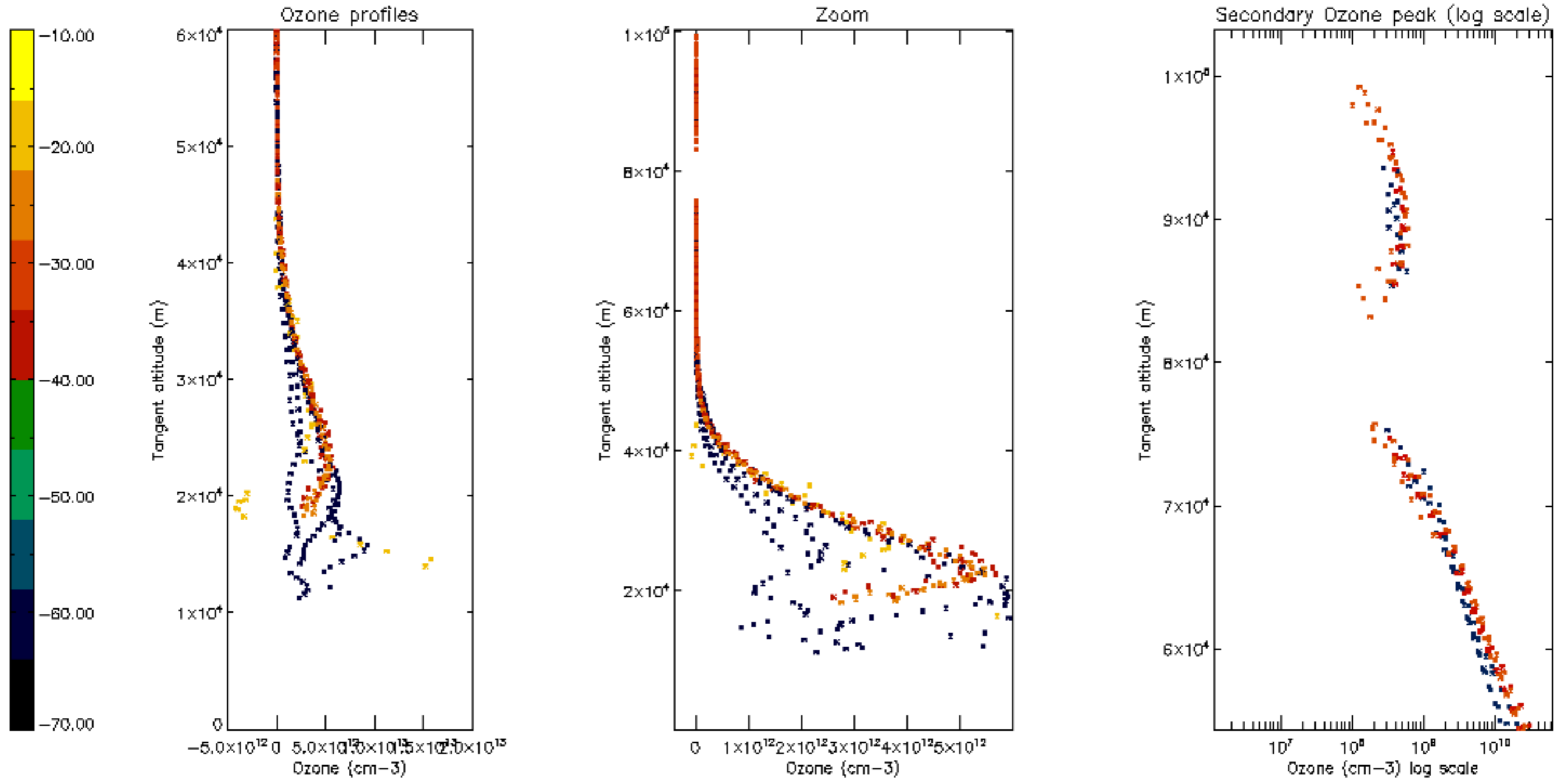
Percentage of star falling outside central band per profile

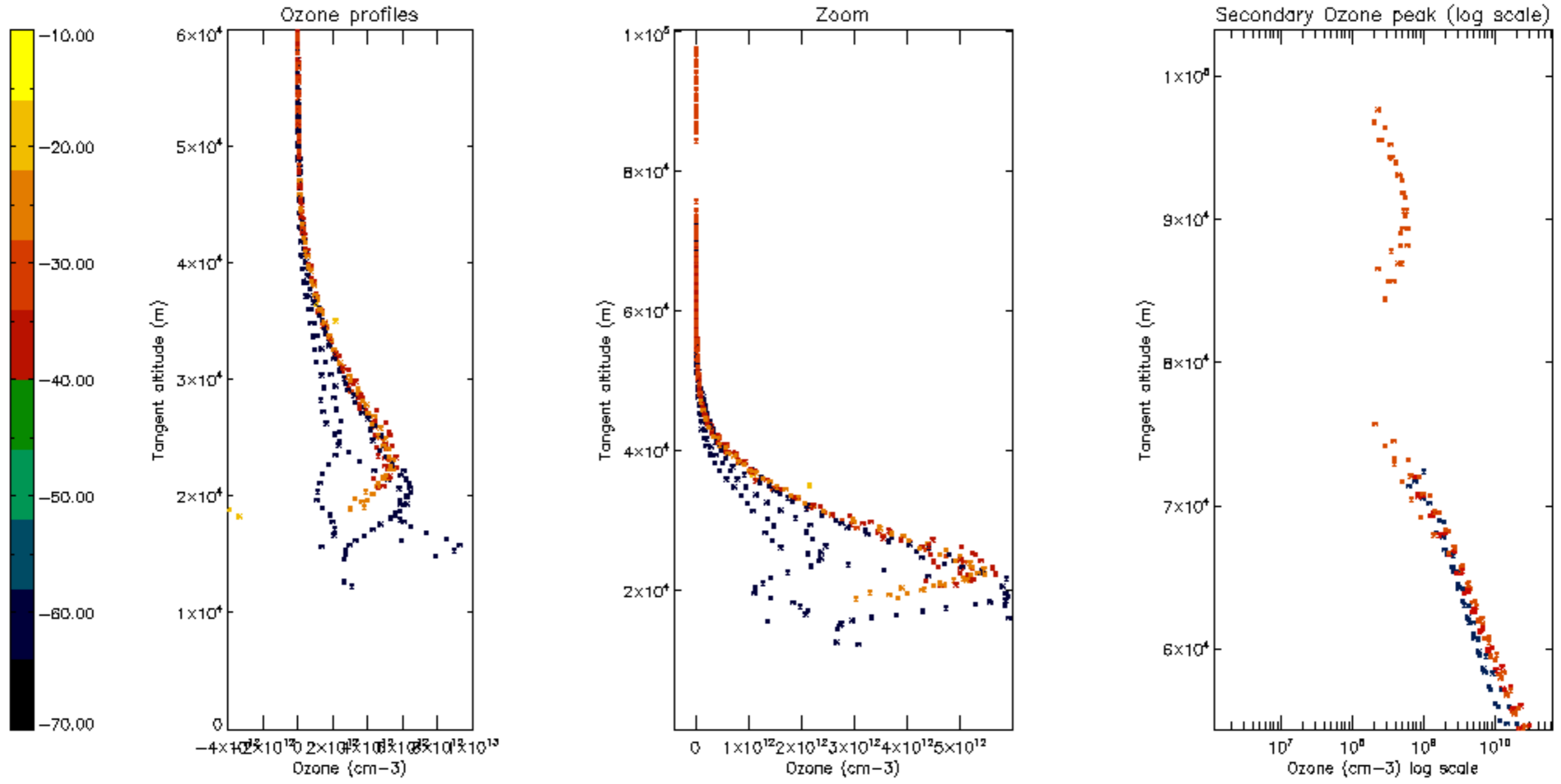


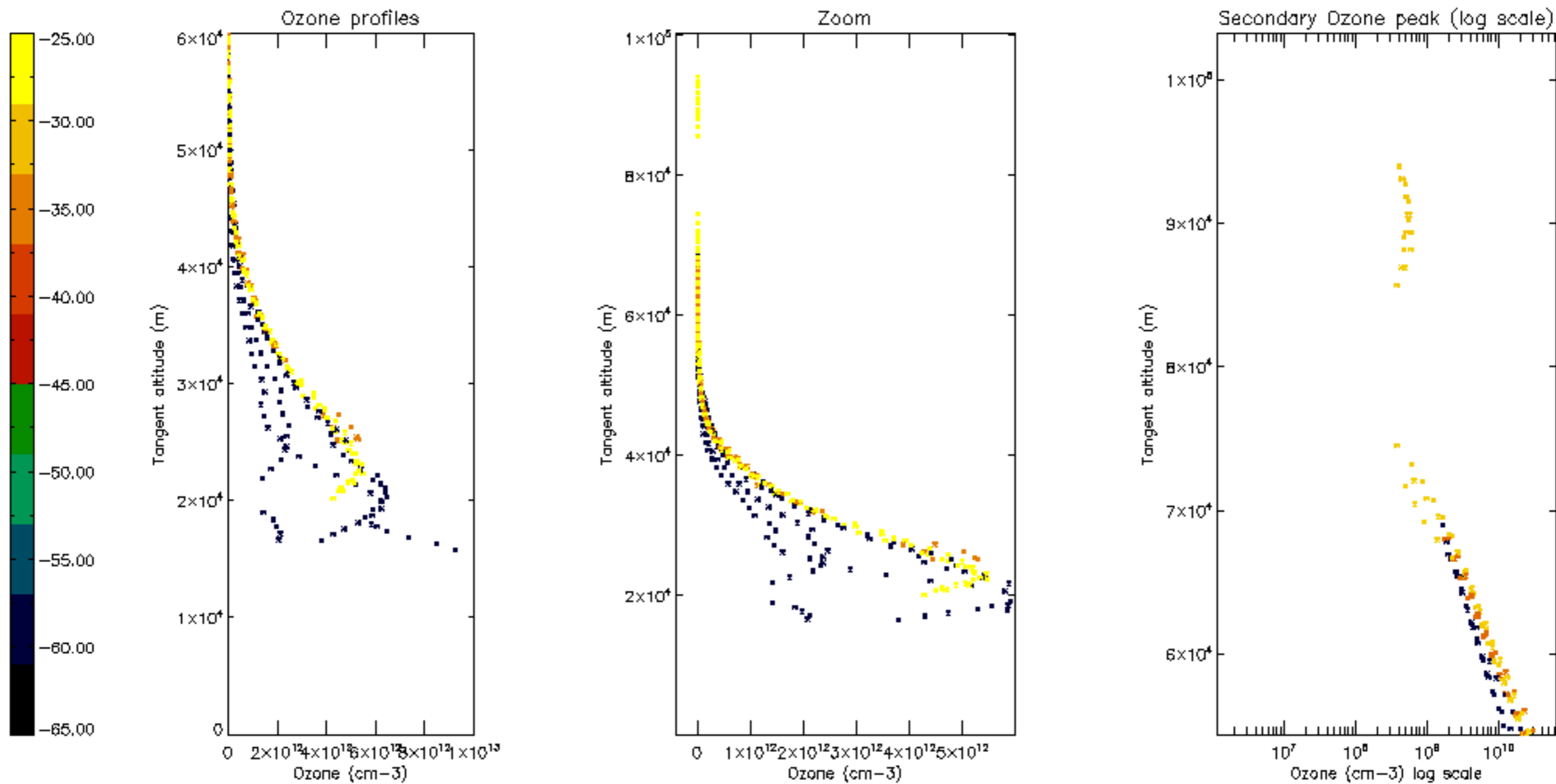
Percentage of saturation errors per profile

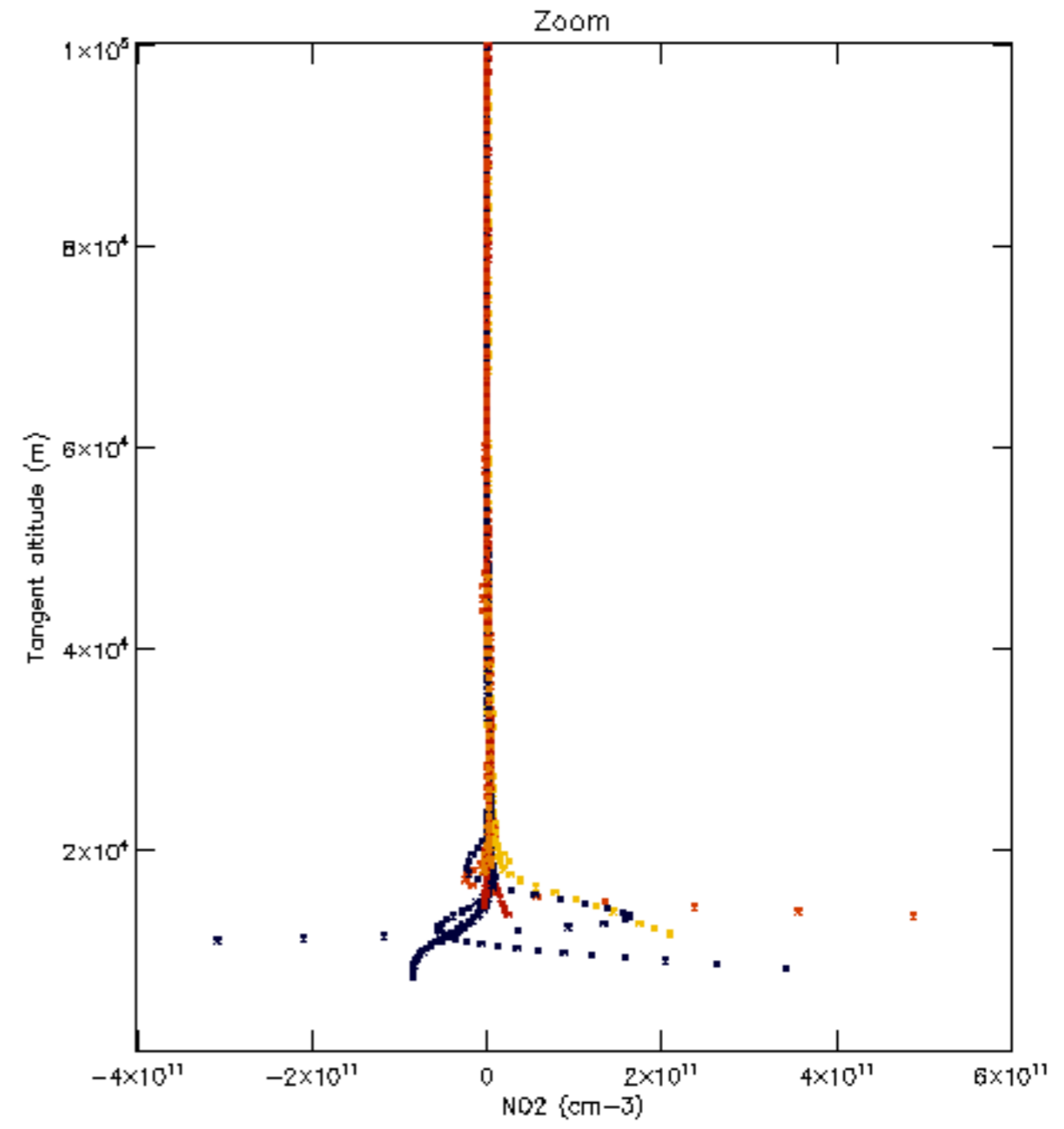
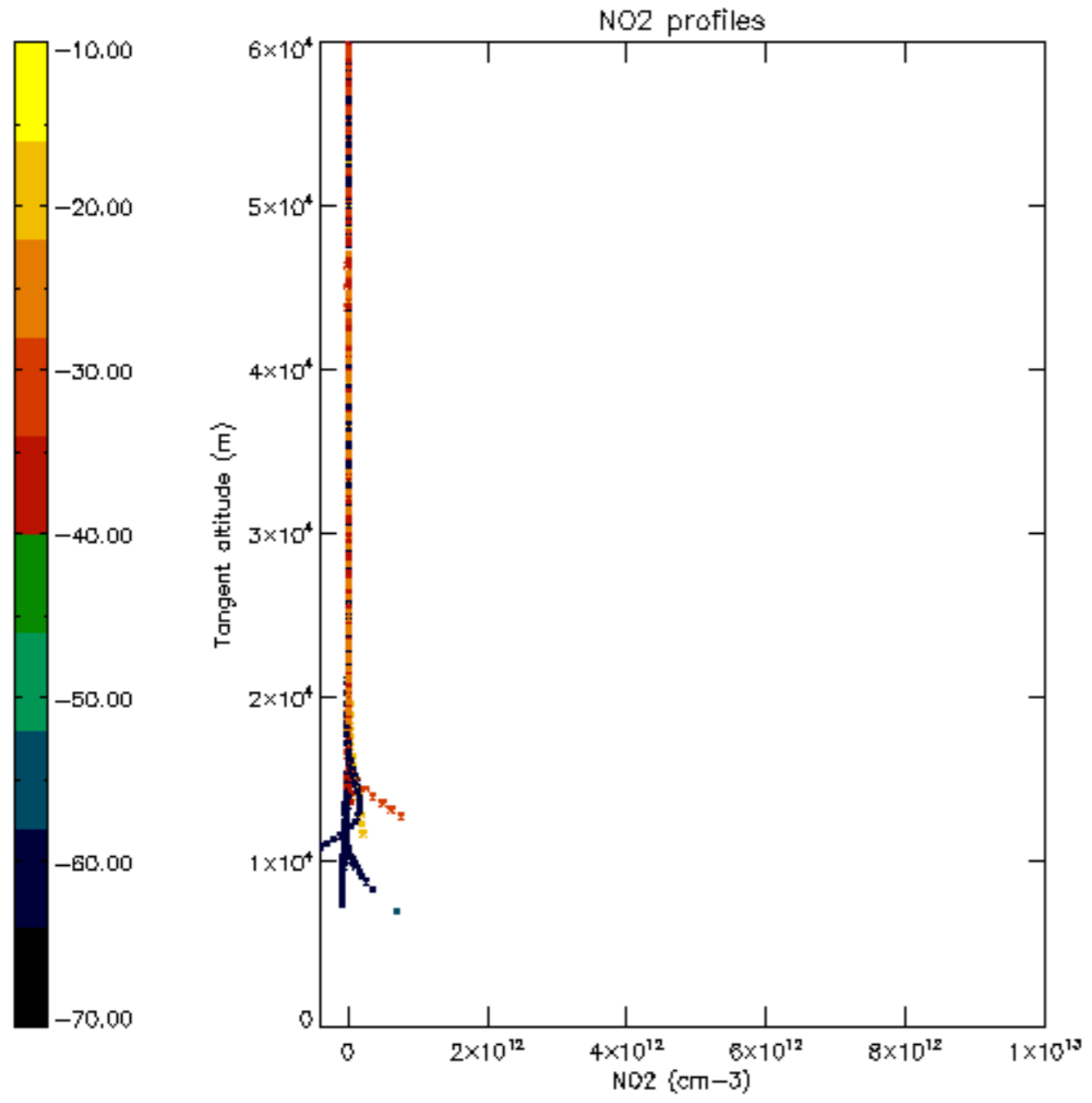


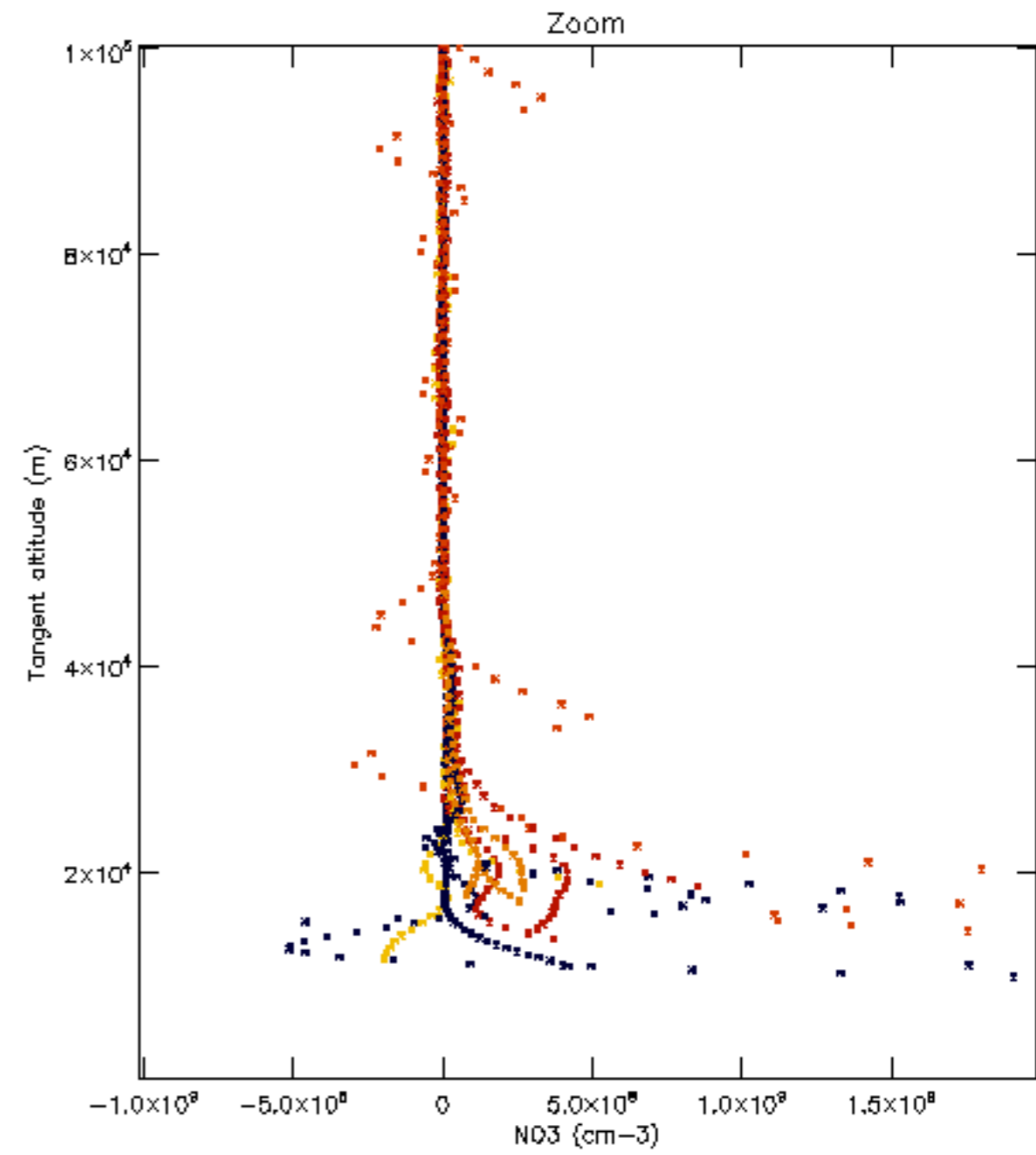
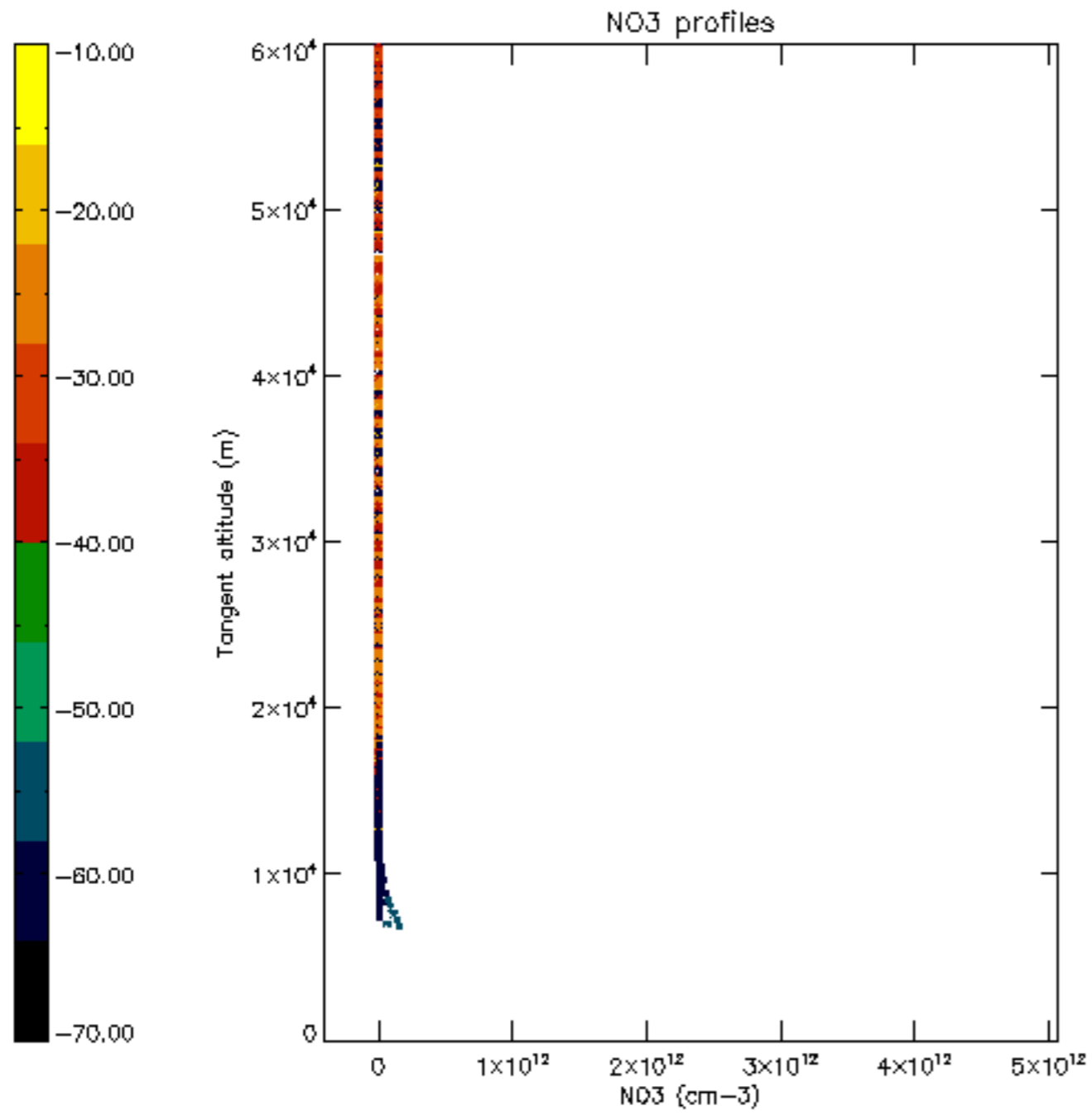


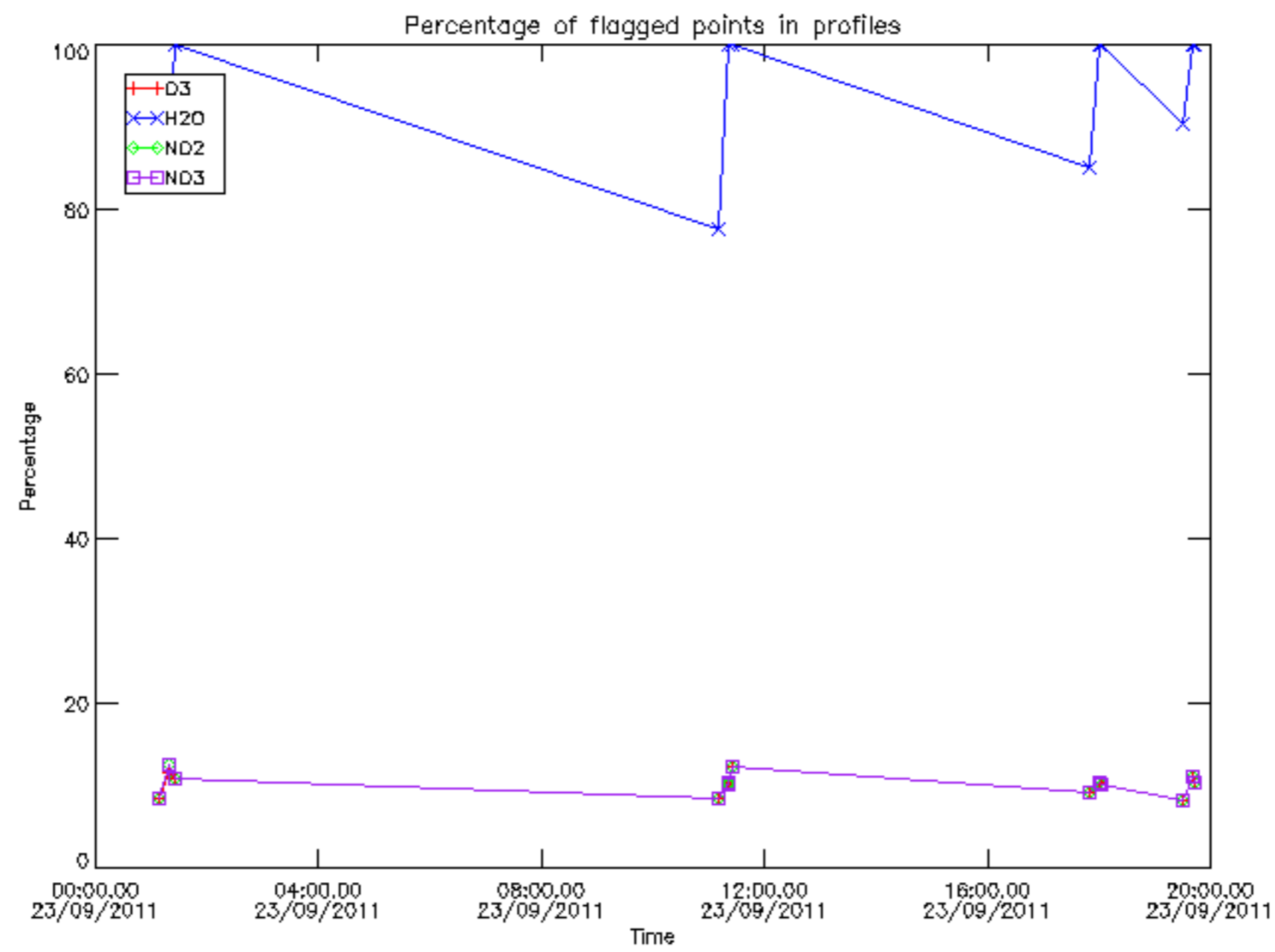




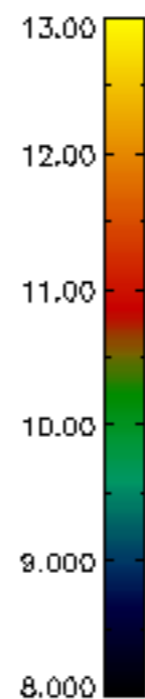
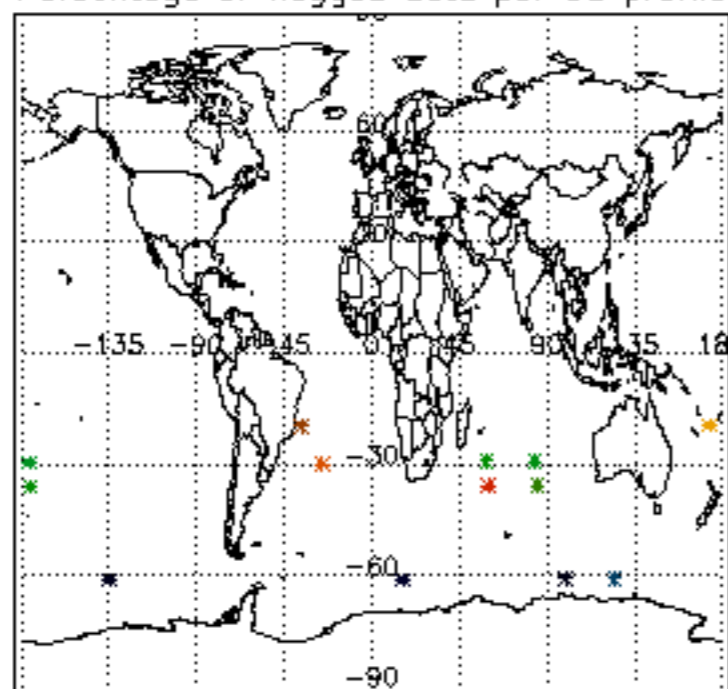




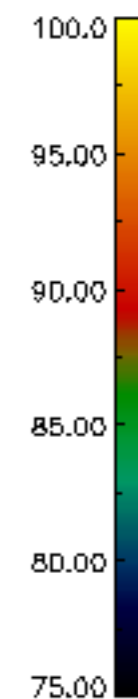
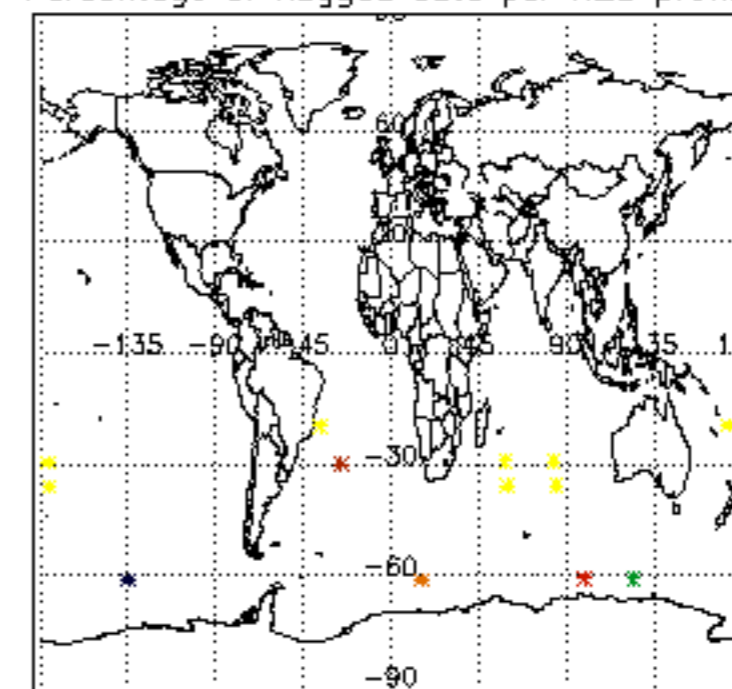




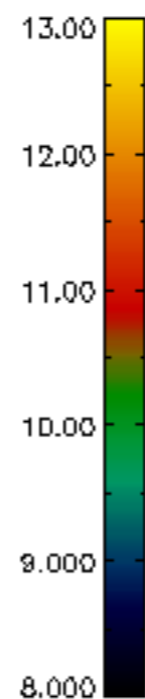
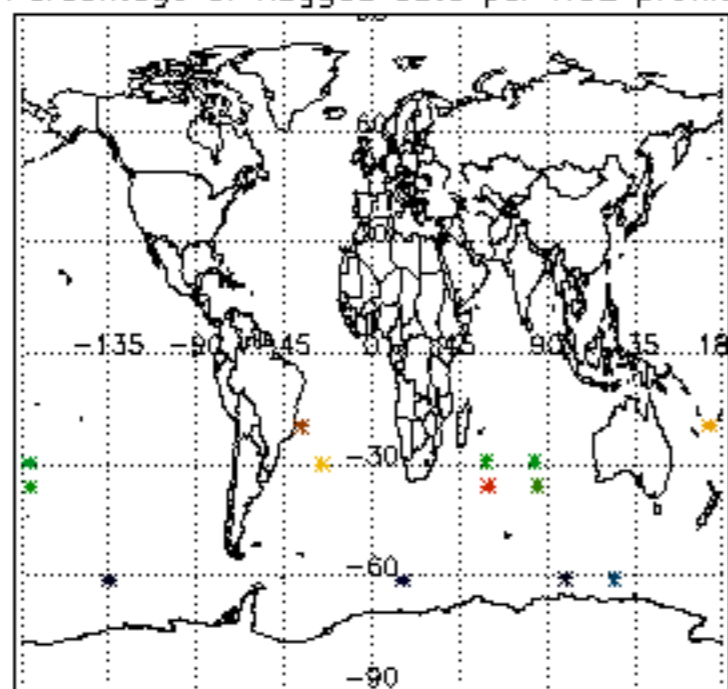
Percentage of flagged data per D3 profile



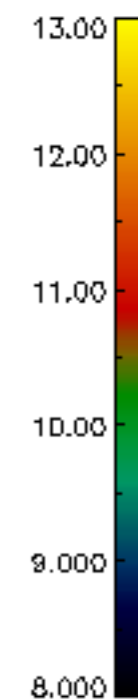
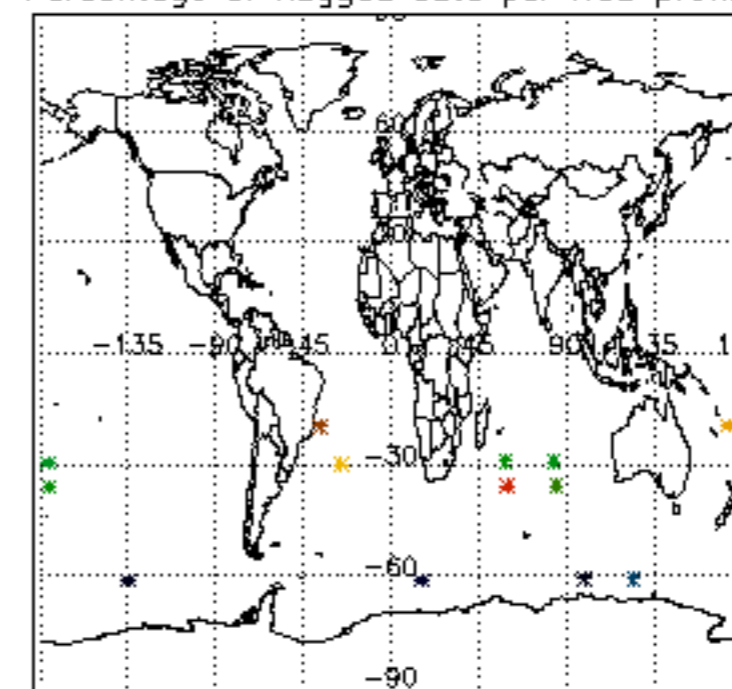
Percentage of flagged data per H2O profile

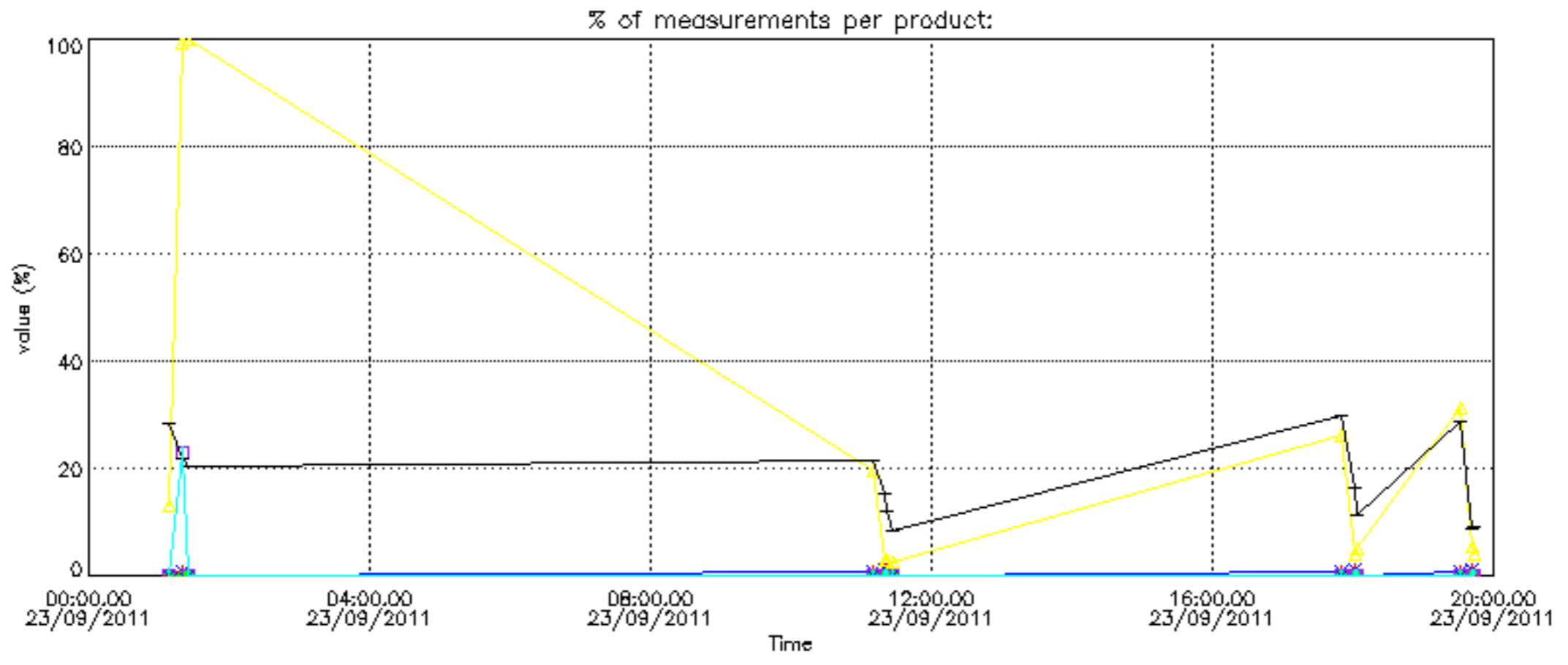


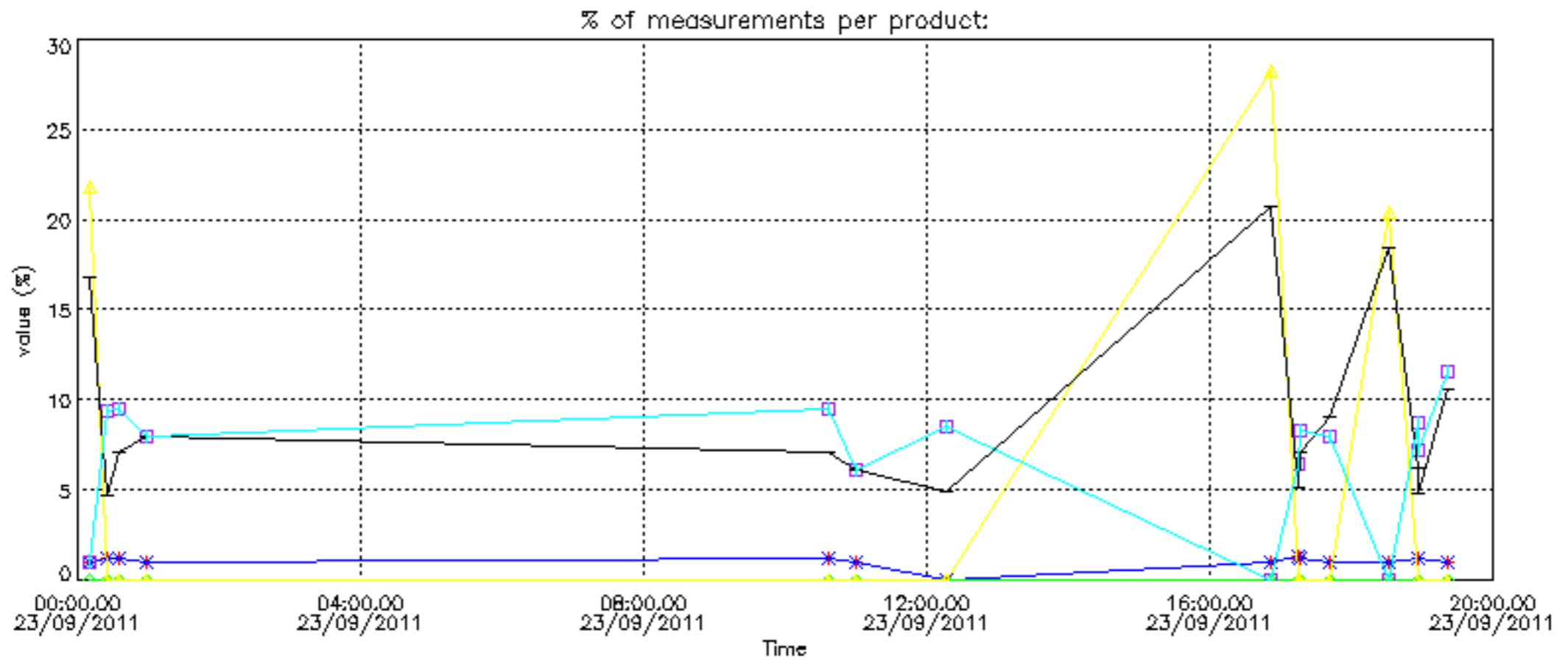
Percentage of flagged data per NO2 profile



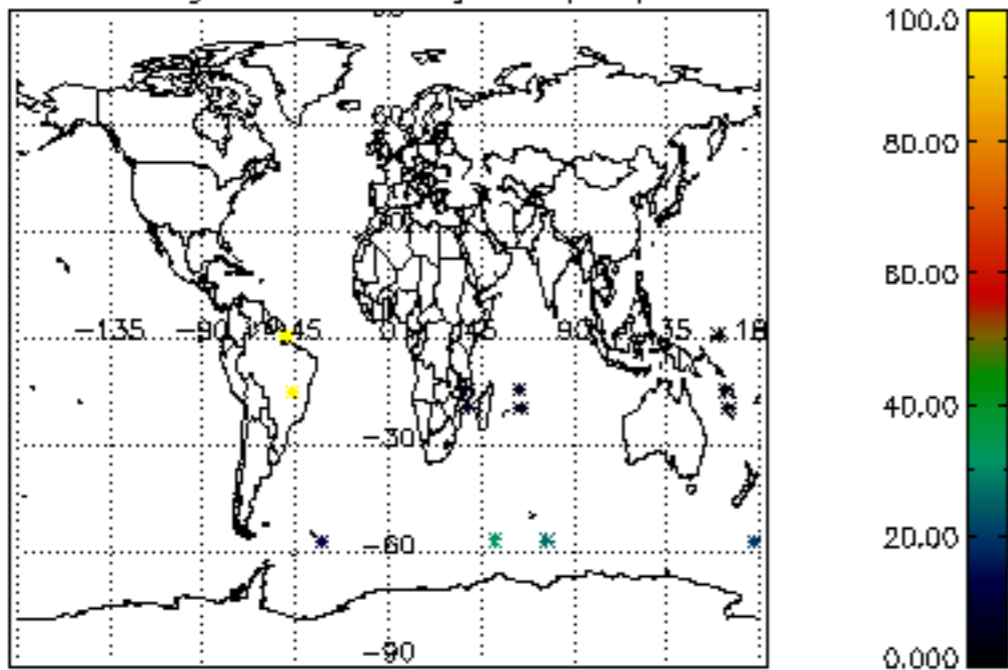
Percentage of flagged data per NO3 profile



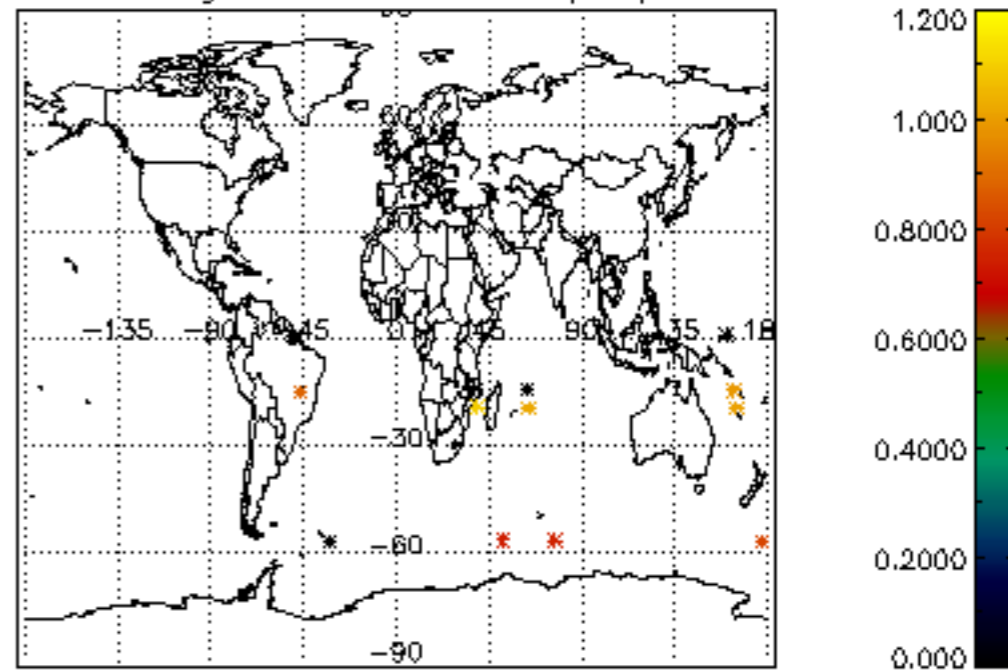




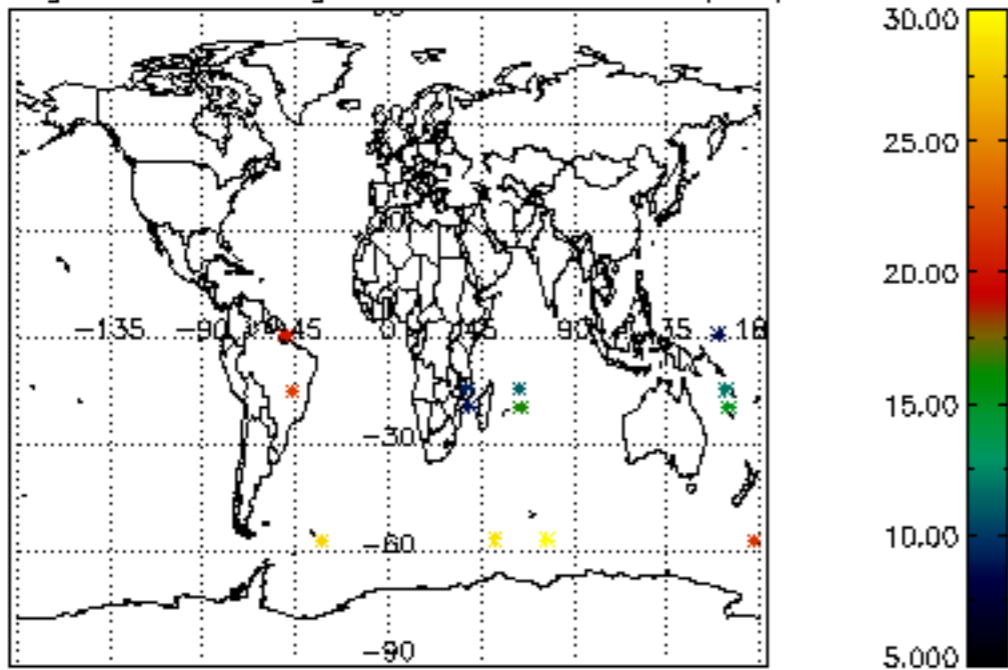
Percentage of cosmic ray hits per profile



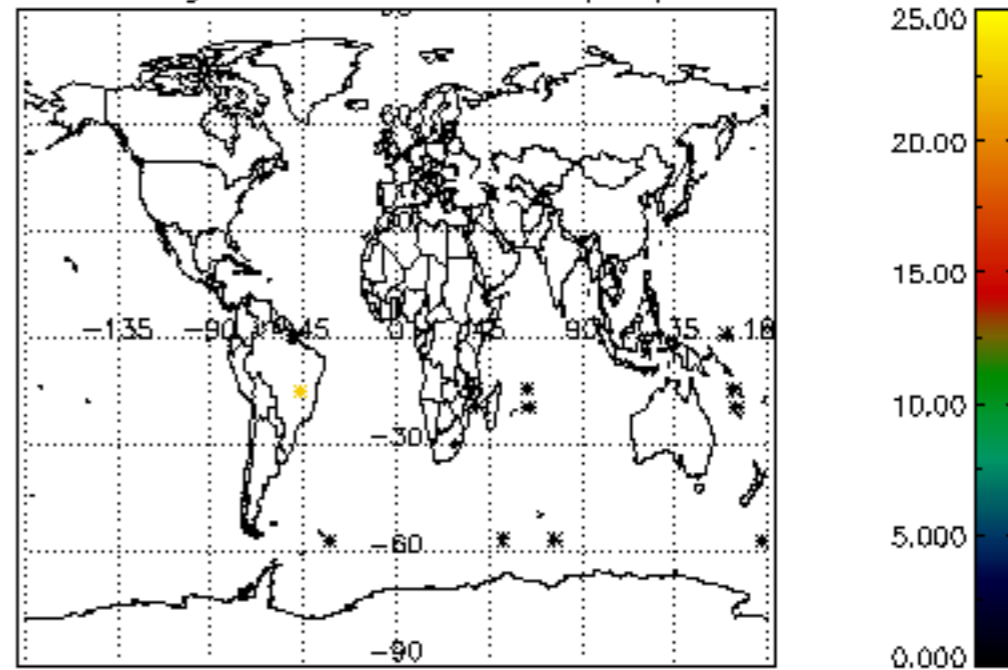
Percentage of datation errors per profile



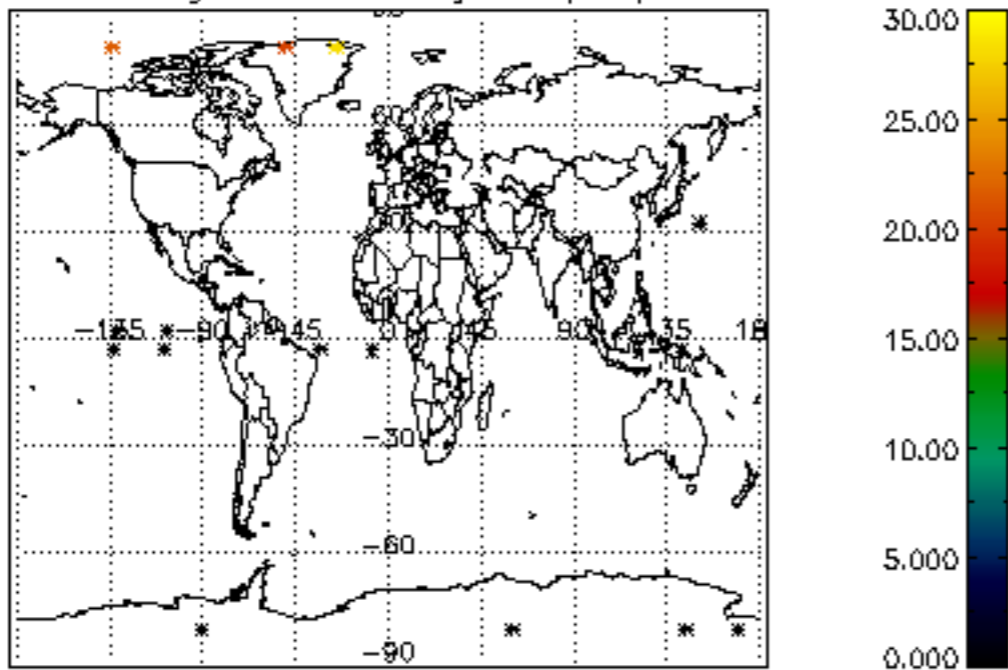
Percentage of star falling outside central band per profile



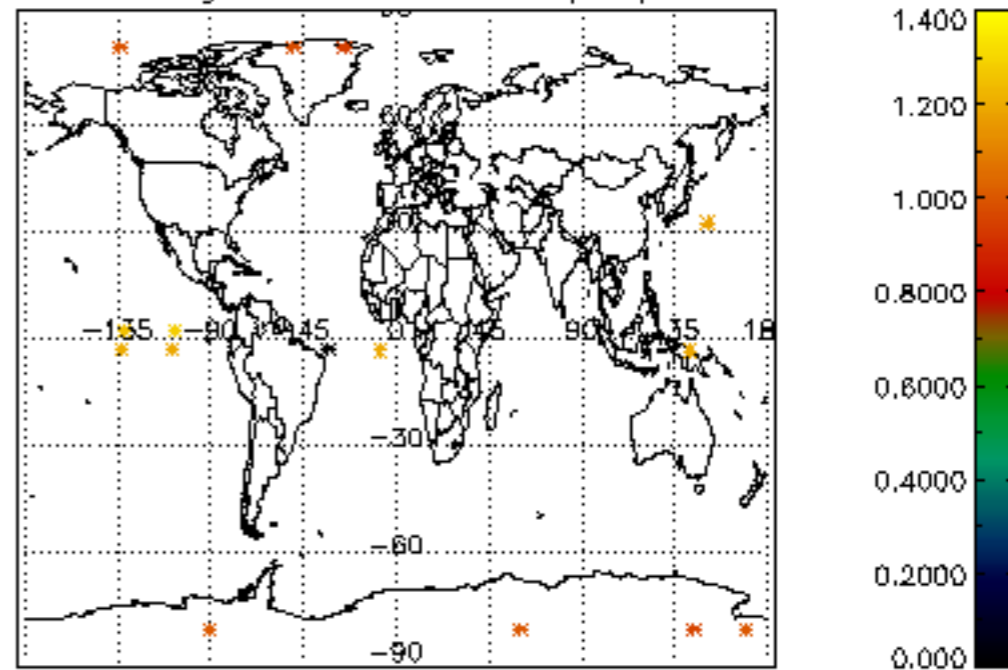
Percentage of saturation errors per profile



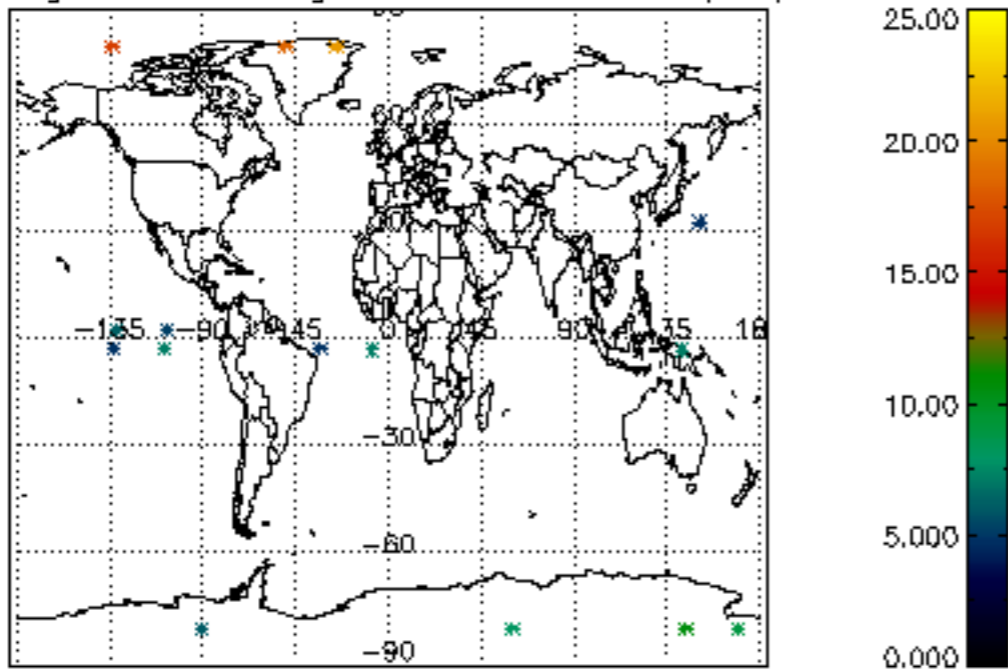
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

